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JUNE 14, 1924.

Vol. C.



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I 'ollers for a livin' and at the end of the job I'm so 'orse I can 'ardly whisper. It's no good 'ollerin' in a world where everybody 'ollers unless you can 'oller louder than anyone else. It ain't tune that's wanted in 'ollerin' but wolume, and I guess May Roberts knew what they were about when they made me their Official 'Ollerer.

Funny thing about May Roberts is that they always want me to 'oller about the same thing, their bloomin' catalogue, what seems to come out twice as orphen as anybody else's and goodness only knows how many times as orphen as them that never 'as one.

They say it costs thousands a year to get up and every time they 'its a chemist with it 'e becomes a customer. Can't 'elp 'imself, sort of 'ipnertizes 'im when 'e sees for imself 'ow cheap things are and 'ow quick 'e can get 'em. Sort of faith 'ealing it is, all their worries 'op it and they knows as soon as they've posted a horder to May Roberts, they've as good as got the goods.

And all the goods too, mark yer, not some of 'em but all of 'em, and that's enough to cure any chemist of insomnia.

All you've got ter do is to sen' em a postcard askin' for their *New Catalogue* of Chemists' Sundries, only do it now right away, case you're so busy you forget and if you would be so good as to mention as 'ow the Official 'Ollerer told you to write, they might give me a day off to go to Wembley.

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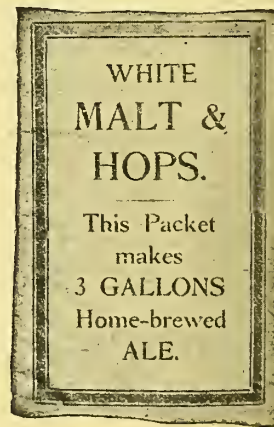
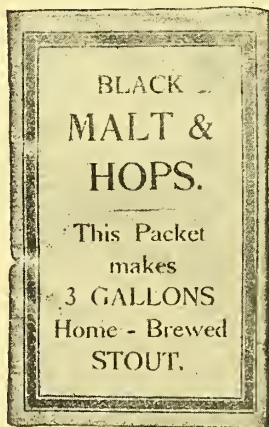
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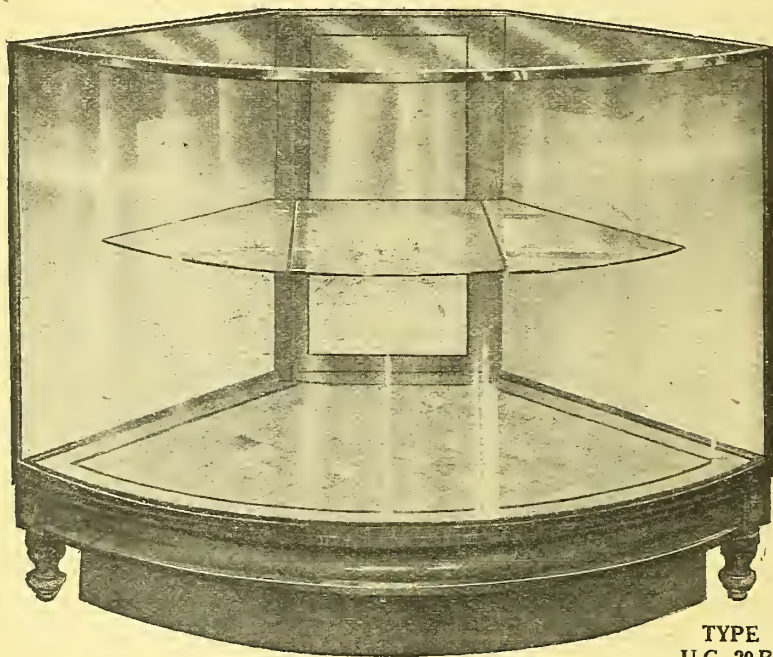
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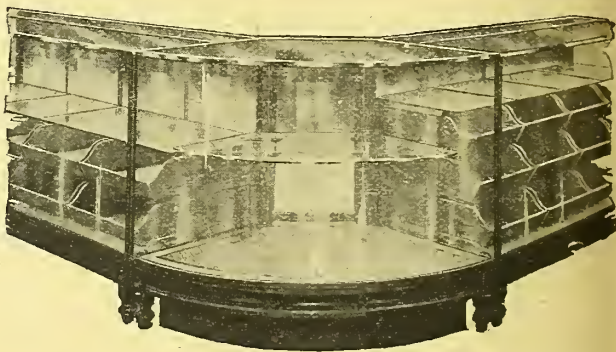
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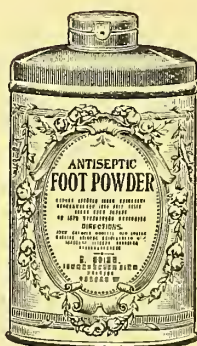
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MERIT is the only thing that really matters in business, and it is merit which has brought fame and 100% increase trade for

"PLAIMAR"

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SANDALWOOD OIL

Distilled by Plaimar, Ltd., Perth, West Australia.

This great success has not been attained by chance: it is the result of years of infinite care in preparation and of intense and vigorous effort.

"Plaimar" is an all British production from start to finish.

"PLAIMAR" OIL HAS
SUCCEEDED BECAUSE
IT IS ITSELF A SUCCESS

Samples and Prices from
PLAISTOWE & CO., LTD.
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ESSENCES

HIGHEST CONCENTRATION.

Sole Agents for Gt. Britain and Colonies

FOR

FRIES & BRO. NEW YORK

The World-Renowned Makers of
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Stocks in London. **PEACH
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The Eau de Cologne of the fastidious

**JEAN MARIE
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The customers who ask you for Jean Marie Farina Eau de Cologne by name are offering you the patronage you should cultivate. And if you offer Jean Marie Farina to those who ask just for Eau de Cologne you are assured of giving supreme satisfaction.

Jean Marie Farina is made from the original formula, solely from French ingredients, exclusively by Roger & Gallet in Paris.



For particulars of Trade Terms, etc., apply to:—
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ESSENTIAL OILS

BERGAMOT GERANIUM
LAVENDER NEROLI
OTTO OF ROSE

Cinnamon	Portugal
Cloves	Peppermint
Eucalyptus	Rosemary
Lemon	Santal
Lemongrass	Thyme
Petitgrain	Verbena, etc.

FLORAL OILS

Highly concentrated oils, manufactured direct from the flowers by our special "enfleurage" process. Can be diluted down with Mineral Oil to any strength for the preparation of Brilliantines.
IN ALL ODOURS.

FLORAL WATERS

ROSE ELDER FLOWER
ORANGE FLOWER

Distilled direct from the flowers.

PERFUMES of every kind.

BULK or BOTTLED

All our perfumes are made with natural floral bases, which are manufactured from the fresh flowers grown on our own plantations.

Can be supplied in all degrees of concentration and for all purposes.

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Factories & Distilleries: Cannes-Grasse, Riviera.
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HUDSON'S VEGETABLE LEAFLETS

Impart to the Complexion and Lips a Perfectly Natural Tint which cannot be detected.

On Attractive Cards of One Dozen.

P.A.T.A. PRICE
6d. each

or 1/4½ for 3 booklets

Sell-at-Sight !

TRADE PRICE
3/9 doz.

Of all the Leading Wholesale Houses, or

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69 CARTER LANE,
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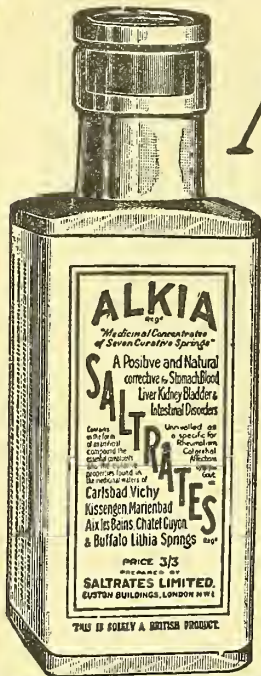
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Compounded UP TO A STANDARD

(The Highest Possible)

Never DOWN TO A PRICE



these lines are as near perfection in their respective fields as it is humanly possible to get them, regardless of cost or selling price. Your customer requires no persuasion after he has once given our preparations a trial. He then KNOWS they are just what he wants and is interested in no others. In other words—after you make the first sale these goods go on selling themselves.

Alkia Saltrates

The most efficient Saline on the market and the best value for the money. Pleasant tasting and always satisfies the user. Widely advertised for Rheumatism, Gout, Sciatica, or any Liver, Kidney, Stomach, Intestinal or Blood Disorders, Catarrhal Affections, etc.

Sells at 3/3 (P.A.T.A.).

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The best selling and most fragrant, refreshing, beneficial and all-round satisfactory preparation for the bath—especially recommended for Corns and all Foot Troubles, Rheumatic Pains, etc.

Sells at 2/- and 3/3 (P.A.T.A.).

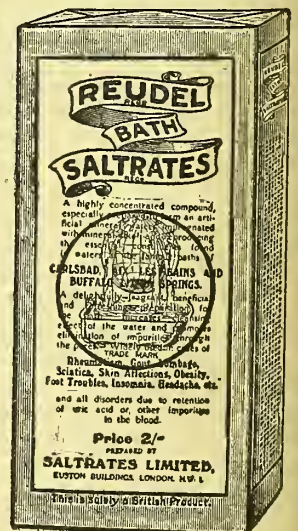
YOU CAN STOCK THESE RAPIDLY MOVING LINES ON GUARANTEED SALE TERMS

Carriage Paid in United Kingdom on orders for three dozen, which may be assorted.

Showcards of strong selling power sent free on request.

Write for our Special Terms for Counter Display.

SALTRATES LIMITED, Euston Buildings, London, N.W.1.



*Nurse
says*



THE "CLINIC"

HYGIENIC FEEDING BOTTLE

Is Natural, Simple, Safe and Clean

Outfit complete with two-hole feeder, teat, valve and cleaning brush. The Teat and Valve are ribbed and of purest rubber, so contrived that there is no risk of them becoming detached from the neck of the bottle during the feed.



Each packed in finely printed carton, with double lock-ends for security.

Per doz... 6/6
3 doz. ..at 6/3
6 doz. ..at 6/-
1 gross for 70/6
SHOWCARDS FREE
*Special quotations
for Export.*

Six dozen parcel with attractive Showcard for 36/-

AYRTON, SAUNDERS & CO., LTD.
34 Hanover St. Telephone: Royal 4861
Telegrams: "Sundries, Liverpool." **LIVERPOOL**

SQUIBB'S AGUE SPECIFIC

We carry stocks in this country, and will be glad to quote special terms for quantity to this or any other country.

We are sole agents throughout the world for the proprietors

**MADON SONS & CO.
BOMBAY**

EVANS SONS LESCHER & WEBB LTD.

56, HANOVER STREET, LIVERPOOL.
60, BARTHOLOMEW CLOSE, LONDON.



"GRIPS"

FIRST-AID PASTILLES

And

WEMBLEY.

Special issue of
New Size Containers
to commemorate the

BRITISH EMPIRE EXHIBITION.

Everybody is talking about the wonders of Wembley, and souvenirs are being keenly sought. To commemorate this gigantic Exhibition we have introduced a new series of Containers for "GRIPS" FIRST-AID PASTILLES, showing views of various parts of the Exhibition and Grounds in photo-colour.

These new tins, in 1-lb. and 2-lb. sizes, are quite free from advertising matter. Their very novelty will ensure their success.

WRITE NOW for particulars and prices.
Supply strictly limited.

*Distributing Agents to the Wholesale and
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Thos. Christy & Co.

4-12 Old Swan Lane, London, E.C.4.

J. W. Lightbown & Sons, Manchester Road, Accrington, makers of "Grips" First-Aid Pastilles, will be glad to see all trade friends at their stand, No. A58a, in the Chemical Section, Palace of Industry.



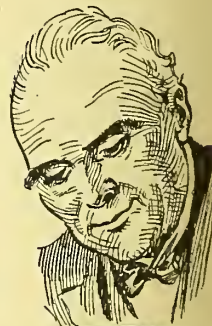
THOMAS KERFOOT & CO LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

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Compelling Power

Of what does attraction consist? One thing is certain—that to attract the public your goods must be presented to them in a manner which will make them stand out distinctively from their competitors. How to achieve this? By means of attractive and original Cartons such as are designed and printed by



FIELD SONS & CO LTD
DESIGNERS, COLOUR PRINTERS &
CARTON MAKERS
SOUTHGATE WORKS
BRADFORD.

LONDON
4, KING WILLIAM ST
E.C.4.

LIVERPOOL
GLASGOW
NEWCASTLE-ON-TYNE.

Baby's birthright— Clean Milk

MILKAL

"Milkal" is produced by a new and exclusive English process by means of which the imperfections of previously known dried milks have been definitely overcome, and the following important advantages achieved:—

1. The fat is retained in its original globular form.
2. Practically none of the albumen is coagulated.
3. 100% soluble in cold water to give a milk practically indistinguishable from raw cow's milk.
4. In most dried milks when mixed with hot water, the fat separates out—and usually appears in a yellow oily mass on the surface, but not so with "Milkal."

The qualities of Milkal are such that every tin sold is a recommendation not only for Milkal itself, but the shop that sells it.

GT. YARMOUTH.

"I have given Milkal a very good trial in every form and find it THE MOST PERFECT FORM OF DRIED MILK one could wish for."

Nurse (Ref. 151).

SOUTHAMPTON.

"I shall always advise my patients to use Milkal—as it is FAR SUPERIOR TO ANY OTHER MILK I have tried."

Nurse (Ref. 153).

OXFORD

"The best preparation of dried milk I have used I shall HIGHLY RECOMMEND MILKAL."

Nurse (Ref. 154).

BERKS

"AN EXCELLENT DRIED MILK. I shall certainly not hesitate to recommend Milkal for infants requiring artificial feeding and also for expectant and nursing mothers"

Nurse (Ref. 152).

The above
— are —
extracts
from recent
letters received
from members of
the nursing
profession.

Write for Trade Terms to the Sole Distributors:

MILKAL LTD

31, ST. PETERSBURGH PLACE, BAYSWATER, LONDON, W.2.

Produced & packed in Devon (England) by MILKAL, Ltd., London & Devonshire.

Consult

The Direct Importers

JOHN W. ROYLE, Ltd.

FOR ALL YOUR MINERAL WATER REQUIREMENTS.

ALL ORDERS EXECUTED CARRIAGE PAID HOME WITHIN 24 HOURS AFTER RECEIPT.

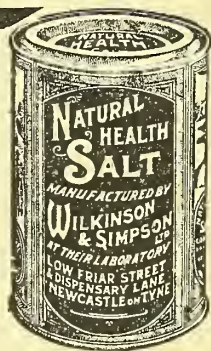
We shall be pleased to see all Chemists interested in Mineral Waters at our

STAND No. 139,

Chemists' Exhibition

CENTRAL HALL, WESTMINSTER.

**A good line
which should be
very prominent
in your displays
this month**



Because it has been famous for many years as the Natural Way to Health, and is in great demand as a blood-purifier and effervescent thirst-quencher.

RIGHT for quality—price—and profit:

**"NATURAL"
HEALTH SALT**

The Original Health Salt of the World.

If you are not already stocking "Natural"—write to
WILKINSON & SIMPSON, LTD. - Newcastle-on-Tyne.

NOW IS THE TIME TO ORDER

**MASON'S
EXTRACT OF HERBS**

**Newball & Mason
NOTTINGHAM**



"Good! It's Mason's!"



A word to the progressive pharmacist on the claims made for certain Baby Foods

You have often seen the statement that A is "Nearest to Nature," that B is "Similar to Human Milk," that C is "Identical with Breast Milk." But how often have you seen analytical data, whose reliability is unimpeachable, in support of these claims?

The manufacturers of Humanised Trufood claim that it is the only scientific alternative to human milk available for the physician, nurse or pharmacist who is called upon to advise a mother as to the best substitute for the breast.

In support of this they offer the following figures:—

	<i>Breast Milk</i>	<i>Cows' Milk</i>	<i>Humanised Trufood</i>
Lactose	6.5	4.7	6.25
Fat	3.3	3.5	3.45
Casein	0.9	3.0	0.80
Lactalbumen	0.4	0.3	0.60
Salts	0.2	0.8	0.65
Water	88.7	87.7	88.25
	<u>100.0</u>	<u>100.0</u>	<u>100.00</u>

*If you do not stock
Trufood, write to-
day for samples and
special trade offer.*

The resemblance to human milk is even closer than is revealed by this table, since the presence of active enzymes—amylase, lipase, peroxydase, etc.—can be readily demonstrated.

***For no other milk food can a similar claim
be substantiated***

Continuous propaganda to the medical and nursing professions by a staff of qualified pharmacists is resulting in an ever increasing demand. You should hold a minimum stock to meet enquiries.



TRUFOOD

TRUFOOD LIMITED, The Creameries, Wrenbury, nr. Nantwich, Cheshire

Season—1924



COD LIVER OIL

GUARANTEED GENUINE. FINEST PURE LOFOTEN.

Manufacturers :

BRÖDR. AARSÆTHER A/S. Aalesund, Norway.

LARGEST MANUFACTURERS OF COD LIVER OIL IN NORWAY.

Stocks always held in London.

1 25-gallon tin-lined barrels.

SOLE AGENTS FOR U.K.: FREUDENTHEIL, SMITH & CO.

21 Mincing Lane, LONDON, E.C.3.

Tel. Add. : "FREUDENRUF."

Codes used : A B C, 4th and 5th Edit. ; and Private.

Tel. : 12513 CENTRAL.

ESTABLISHED 138 YEARS.

R. J. FULLWOOD & BLAND'S

WORLD RENOWNED

"DAIRY" Brand

"STAG" Brand

RENNET AND ANNATTO

"Oleo" and "Sunbeam" Butter Colour, Essence of Rennet, Junket Tablets, &c.

For Samples and Quotations, apply to 31, 33 & 35 BEVENDEN ST., HOXTON, LONDON, N.1

RENNET WORKS, ELLESMERE, SALOP. The Largest in Europe.

NEW STOCK FOR OLD



THE GREAT NERVE FOOD AND FLESH BUILDER

EVERY chemist holding stocks of IRVONA of the obsolete 3/- and 15/- sizes should return them to us, when they will be immediately exchanged for the NEW SIZES at equivalent value.

NOTE REVISED PRICES

1/3 size IRVONA. Trade Price 12/- per doz.
5/- " " " " 48/- "
12/- " " " " 115/- "

Another line rapidly growing in popularity:—

"IRVOLAX" (the safe aperient).

1/3 size " " " " 12/- per doz.
3/- " (four times the quantity) 27/- "

Obtainable through the usual wholesale houses, or direct if cash sent with order.

P. J. WILLIAMS
27 Finsbury Street LONDON, E.C.2

G. A. LEJEUNE 28A CHANDOS ST. LEICESTER.

COMPLETE

PRICE TICKETS

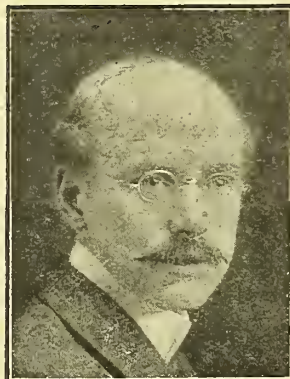
A Special Cheap Line which may not be repeated.

Black on White Card. Oblong or Diamond.

Size	Per Doz.	Per gross.
3" x 2"	1/3	13/6
4" x 3"	1/9	19/6
6" x 4"	2/3	25/-
8" x 5"	2/9	31/6

Coloured card or figures 10 per cent. extra, 1 gross and over carriage paid.

NOTE—Please send range of prices and number of each required. SAMPLE TICKET SENT ON REQUEST.



BUSINESS BUILDING

BY MY SPECIAL, NEW SYSTEM.

Particulars free.

ALSO

LIMITED COMPANY REGISTRATION

If I do it, IT'S RIGHT.

A. BERNARD SLACK
 (From Liverpool),

15 Christchurch Avenue, West Didsbury, Lancs.

Inclusive Quotations. See C. & D. Supplement.

Lorimer-Marshall, Ltd. *for* PACKED GOODS

Granular Effervescent Citrate of Magnesia

Seidlitz Powders (Plain and Lemon Flavoured)

Health Salt

Salines

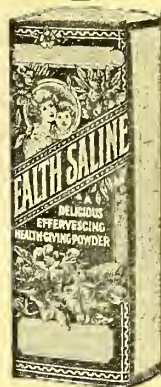
Compound Syrup of Hypophosphites

Blood Purifier

Tonic Elixir

Children's Tonic

AT KEENLY COMPETITIVE PRICES.



LORIMER-MARSHALL, LTD., 12 Tower Hill, London, E.C.3

Works Telephone : New X 2119.

Telegrams : "Lorimarsco, Bilgate, London."

1923

MARTEN'S

1924

COD LIVER OIL

FINEST NORWEGIAN MEDICINAL QUALITY, B.P.

STEAM-REFINED. NON-CONGEALING. BRILLIANT. GOOD TASTE. EXCELLENT
APPEARANCE. Also VETERINARY QUALITY.

Sole Consignees in the
United Kingdom :

FRED^K BOEHM, LIMITED

15, 16, 17 JEWRY STREET, LONDON, E.C.3.

140 WEST GEORGE STREET, GLASGOW

Stocks kept in London, Hull, Liverpool, Glasgow

Reduction of Prices

**Important Note
to Chemists
without Licenses**

It has been established by law that Registered Chemists may sell Wincarnis with Quinine without a License.

WINGARNIS

**Sells readily ALL
the time.**

COLEMAN & CO., Ltd., Wincarnis Works, Norwich.

**New Prices to
the Public :**

Large Size **5/-**

Small Size **3/-**

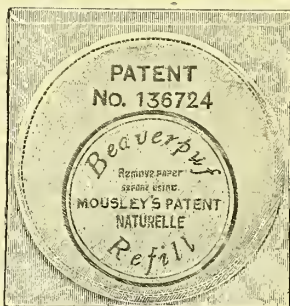
Mousley's
Patent.

"Beaverpuf"
Trade Mark.

Patented
throughout
the World.

Powder Refill for all "Beaverpuf" Models.

Naturelle,
Rachel, Blanche,
Sunburn, Etc.



Price :
6d. and 1/- each.

Illustrated Booklets, Showcard and Price List on application.

"Beaverpuf" Ltd.

PRIEST BRIDGE,
MORTLAKE,
LONDON, S.W. 14

Telephone: PUTNEY 166.

SOLE CONCESSIONAIRES FOR GREAT BRITAIN AND IRELAND.

Issued by the Patentee and
Sole Manufacturer:

FRANK MOUSLEY,

"Wilderness" Works,
East Sheen, London, S.W. 14

Messrs. Cussons, Sons & Co. Ltd.

request the honour of a visit from
Buyers from Home and Overseas to
— their exhibit at —

STAND No. 50

**CHEMISTS' EXHIBITION, CENTRAL HALL
WESTMINSTER - - - JUNE 23rd to 27th**

when the manufactures of this firm, particularly suited for pharma-
cists, will be on view and all particulars of their products available.

CUSSONS, SONS & Co., Ltd. Makers of Fine Soaps and Perfumes,
KERSAL VALE WORKS, MANCHESTER.

**BRITISH EMPIRE EXHIBITION
CHEMICAL HALL, PALACE OF INDUSTRY, STAND No. A.11.**

You can't afford to miss Elfrida

Carriage Paid.
Terms
£2.
Packed Wets
£3.
Ireland
£5.

See the
Arresting and
Attractive
Window
Show on the
other side.



PROBABLY no series has ever before made the instant appeal to both trade and public like Elfrida has.

Commencing with a single line—the cream—the demand for a complete series of the same quality and excellence has been most insistent, and to day a very complete range of Toilet Preparations is in daily demand all over the Kingdom.

The retail price in every case has been specially considered to just fit the public purse, the get up is arresting and artistic, the quality excellent, making an appeal to the million.

There is nothing cheap about Elfrida except the price, and it is an open secret that the quality and value of the Elfrida Series has won the admiration of both the trade and the public alike.

The retail price in every case is fixed, no cutting is allowed, and a wonderful profit is secured by the pharmacist.

Don't miss our special Elfrida Display at the Chemists' Exhibition, which commences a week next Monday. Our perfumery expert will be in attendance.



W. B. CARTWRIGHT LIMITED, RAWDON, NEAR LEEDS

Beauty · Attraction · Selling-power



If possible, this display is more attractive than the last, and that one probably sold more goods for the pharmacist than any single display has ever done.

The illustration completely fails to do justice to the effect achieved. The showcards are all some of the finest work we have ever done, they don't readily soil, and may be cleaned with a damp, clean duster or leather.

The central item in the display is, as it

should be, the new Bijou Set. This line is surely a record in value, and already the repeat orders are rolling in for it.

We are making a wonderful Bonus offer, which includes this display and 100 copies of the artistic Elfrida Booklet free.—The outlay is small, the sales rapid and the returns large.

Full details of Bonus offer and a copy of the Elfrida Beauty Booklet sent on request.





Contents of Gibbs Souvenir Box

1. GIBBS SUPER FATTED COLD CREAM SOAP
recommended by thousands of Doctors and Nurses for Baby's tender skin, because of its liberal proportion of Cold Cream. Skin Specialists advise its regular use for ensuring a healthy, clear skin and beautiful complexion. Price 6d. per full-sized tablet. Bath size, 11d.

2. GIBBS SHAMPOO POWDER
makes the hair wonderfully soft, lustrous, luxuriant and easy to dress. Delicately fragrant. Price 3d. per pkt.

3. GIBBS COLD CREAM FOAM (Vanishing Cream)
A non-greasy Cold Cream that vanishes—without a trace of shine. Has valuable emollient and cooling qualities, and forms an ideal base for powder, which untailingly "stays on." Prices 3d. and 1/-.

4. GIBBS WIND SIFTED TALCUM POWDER
Unusually soft and smooth. Men delight in its soothing effects after shaving. Women are enchanted by its delicate, perfume. Baby loves to feel it upon his tender skin. Price 1/-.

5. GIBBS SHAVING CREAM
Made upon an entirely new principle. A fragment produces a super-lather that instantly softens the beard. Price 1/6 per tube.

6. GIBBS DENTIFRICE
A solid pink cake—cannot waste or be accidentally spilled or squeezed out. Economical and British. Large size 1/-, de Luxe, 1/6; (Refills, 11d.); Popular size, 7½d. Tubes 6d. and 1/-.

Gibbs Souvenir Box Brings Wembley to your Customers

Visitors to the great Exhibition are eagerly purchasing the dainty souvenir boxes of Gibbs Preparations distributed from our stand.

Each box contains 6 useful samples of Gibbs Preparations and is priced at 6d.—considerably below the actual cost of production.

These boxes are now offered to you for sale to *your* customers—on terms which are highly profitable to you. The souvenirs will bring the topical Wembley touch to your pharmacy—give interest to your window and counter-displays—and help your sale of Gibbs Toilet Preparations.

We have already distributed large quantities of the Souvenir Boxes both from our stand and also from the front page *Daily Mail* advertisement which appeared on June 12th. You now have the opportunity to hand them to your own customers—take it while you may. The quantity we can produce at the price is strictly limited.

Write for particulars NOW!

D. & W. GIBBS, LTD. (Dept. DGr6),
City Soap Works, London, E. I.

**STAND
No. 13A**
Chemical
Section,
**Palace of
Industry,**
British
Empire
Exhibition.



DEARBORN (1923) LTD.

37 Gray's Inn Road, London, W.C.1

Toilet Specialties.

	Price per doz.	Selling Price P.A.T.A.
PILENTA SOAP	10/-	1/-
A complexion soap.		
PROLACTUM	10/-	1/-
For the lips.		
PARSIDIUM JELLY	10/-	1/-
For wrinkles.		
ALLACITE OF ORANGE		
BLOSSOM	22/6	2/6
A dressing cream.		
BORANIUM	22/6	2/6
A hair tonic.		
CLEMINITE	22/6	2/6
For a face lotion.		
COLLIANDUM	22/6	2/6
For a face tint.		
PERGOL	22/6	2/6
A deodorant.		
TEKKO PASTE	22/6	2/6
Ca.aphor cream.		
STALLAX	22/6	2/6
For a shampoo.		
JETTALINE	31/6	3/6
For clearing the skin.		
PHEMINOL	36/-	4/-
A depilatory.		
MENNALINE	36/-	4/-
For the eyelashes.		
MERCOLIZED WAX	{ 18/- 2/- 31/6 3/6	
A face cream.		
STYMOL	36/-	4/-
For oily complexions and blackheads.		
SILMERINE	22/6	2/6
Hair-curling fluid.		
BARSYDE	22/6	2/6
Dandruff eradicator.		
TAMMALITE	22/6	2/6
For grey and faded hair.		
LIQUID PERGOL	31/6	3/6
To cheek excessive perspiration locally.		
BICROLIUM	22/6	2/6
For whitening the hands.		
COCONOIDS	31/6	3/6
For figure development.		

The Products of

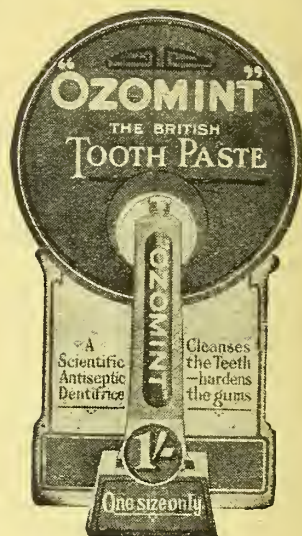
Messrs. PARKER, BELMONT & CO.

CLYNOL BERRIES	{ 36/- 4/- 58/6 6/6	
For obesity.		
SOFT PALERIUM	45/-	5/-
For wrinkles.		
LIQUID NAIL POLISH ..	10/-	1/-
Brilliant and lasting.		

Stocked by ALL Wholesale Houses.

COLONIAL DEPÔTS AND AGENCIES.

Australia: ALL WHOLESALE & DEARBORN (Australia), Ltd., Grace House, Clarence Street, Sydney.
South Africa: LENNON Ltd., Cape Town, etc.
SIVE BROS. & KARNOVSKY, Johannesburg.
India: FRAMJEE & SON, Bombay.
 A. L. CHOUDRY, Calcutta.
New Zealand: SHARLAND & CO., Auckland and Wellington.
South America: DEARBORN (South America) Ltd., Calla Salta 264, Buenos Aires.
Strails Settlements & Federated Malay States: MEDICAL HALL, Ltd., Singapore.



A Paying Proposition

Interest your Customers in
"OZOMINT"

The British Tooth Paste at
ONE SHILLING.

A trial dozen with Showcard Stand
 on receipt of Postal Order, 7s. 6d.

Your Customers will appreciate the
 Goods and the

MODEST PRICE

TERMS:

3 doz. 7s. 9d.	doz. with Bonus 1 Tube per doz.
6 doz. 7s. 6d.	" " " "
12 doz. 7s. 3d.	" " " "

NOTE THE TERMS.
 THE SELLING PRICE.
 YOUR PROFIT.

CUXSON, GERRARD & Co.
 LIMITED,
 OLDBURY

Six Reasons Why you should push

Euthymol **TOOTH PASTE**

Because

1. Its reputation is well established.
2. It carries a handsome protected profit.
3. It has a standardised germicidal power.
4. It enjoys the recommendation of the dental profession.
5. It is widely advertised.
6. It sells easily and secures regular repeat orders.

Minimum Retail Price ... 1/3 per tube. Minimum Wholesale Price ... 10/2 per doz.

We invite our chemist friends to visit us at
STAND No. 98, 101
CHEMISTS' EXHIBITION, Westminster
June 23rd-27th.



PARKE, DAVIS & COMPANY
50-54 Beak St., London, W.1

To MANUFACTURERS

FASSETT & JOHNSON offer a complete Marketing, Selling and Distributing Organisation of many years' reputation and standing in

GREAT BRITAIN

AUSTRALIA

NEW ZEALAND

SOUTH AFRICA

IRISH FREE STATE

FASSETT & JOHNSON specialise in the Marketing of Proprietaries and Branded Goods in the above Territories.

FASSETT & JOHNSON, LTD.

86 CLERKENWELL RD., LONDON, E.C.1.

Irish Free State: 2 BERESFORD PLACE, DUBLIN. South Africa: 15 BREE ST., CAPE TOWN.

Australasia: 233 CLARENCE STREET, SYDNEY, N.S.W.

Represented in India and also in European Countries.

The "FORT" Brand PROPHYLACTIC TOOTH BRUSH

Each Brush packed in an **Orange Carton**, sealed at Factory, ensures Brush reaching customer in a clean and wholesome condition.

— In Three Sizes. —

WHOLESALE—

Full Size, 16/- doz.

Ladies' Size, 15/6 „

Children's „ 11/6 „

RETAIL PRICE,

2/6



HARD
MEDIUM
and SOFT.

Also
VERY HARD
UNBLEACHED.

W. R. TILBURY & SON

Est. 1880

47 FRAMPTON PARK ROAD,
HACKNEY, LONDON, ENGLAND

*Phone - - 1794 Dalston

Big Offer for Window Displays

Until further notice we are presenting absolutely free, with each display order, one dozen Glycola Shampoo powders for each

1 doz. 1/4 bottles of Glycola

2 doz. -/8 bottles of Glycola

1 doz. -/10½ tins of Health Salts.

Also usual 10% discount off m.w.p. Don't miss this profitable line of business.



CLARK'S GLYCOLA

is one of the best selling toilet preparations on the market. It is always in good demand and carries an 'excellent margin of profit. Sell it and display it. It will pay you well.



"Specialty"

Brilliantines and Toilet Paraffins -

will satisfy your customers—and satisfied buyers are regular customers. As one of the largest importers of petroleum products, we are able to quote exceptionally attractive prices, while maintaining the highest possible standard of quality.

"Specialty" Brilliantines and Toilet Paraffins are supplied in a wide variety of high-quality perfumes to the retailer's own choice.

Send for samples and latest price list and prove these facts for yourself.

ATTRACTIVE SHOWCARDS SUPPLIED.

OTHER "SPECIALTY" PRODUCTS

Petroleum Jelly—Co'd Creams—All B.P.
Ointments—Cocoanut Oil—Petroleum
Emulsion—Cod-Liver Oil Emulsion—
Pectoral Petroleum Emulsion.

"SPECIALTY" DEPT.
ANGLO-AMERICAN OIL CO., LTD.

**Albert Street,
Camden Town, London, N.W.1**

Telegrams:
Nufinjol, Norwest
London."

Telephones:
Hampstead 4046
and 4047.

The Pageant of Beauty is selling Pears' Soap

Have *your* sales increased?

The Pageant of Beauty — probably the greatest and finest publicity campaign ever launched — is selling Pears' Soap.

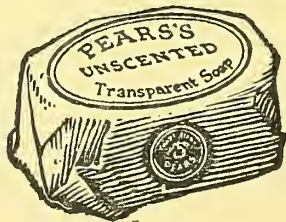
This it was designed to do. But the extent to which it has succeeded is altogether remarkable.

The Pageant extends over a period of six months and consists of five phases each dealing with a different aspect of the controversial and engrossing subject of Beauty.

Now comes the question, are *you* selling more Pears' Soap? You should be. If you are not, we invite you to strengthen the link between your shop and this campaign. Frequent and forceful displays of Pears alone can accomplish this.

Get to know more of this campaign — it will pay you. Write—

A. & F. PEARS, Ltd.,
71-75, New Oxford St.,
LONDON, W.C. 1.



The Demand for Sphagnol is rapidly increasing

Our big sampling advertising scheme is bringing plenty of - new business to chemists and pharmacists everywhere. Women who try these wonderful

Sphagnol

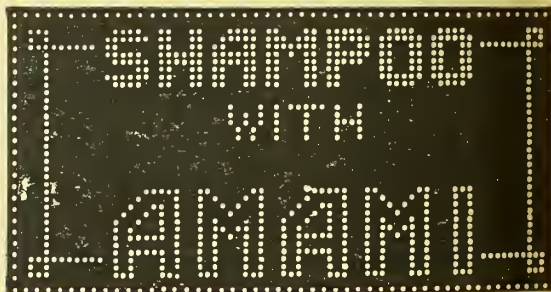
skin and hair beautifiers are delighted with their results and invariably want regular supplies.

Send to-day for full particulars of Sphagnol Toilet and Medical Preparations. There is a growing market for them and a satisfactory profit too. Stock up now and take advantage of it.

PEAT PRODUCTS (SPHAGNOL) LTD. (Dept. B3),
18-19 QUEENHITHE, LONDON, E.C.4.

SOAPS : OINTMENT : CREAM : SHAMPOO

ONE OF LONDON'S ILLUMINATED NIGHT SIGNS



Chemists are finding it profitable to link up with the big, consistent AMAMI Advertising Scheme. Book your order to-day with PRICHARD & CONSTANCE (Whol.), LTD., 4-10 Chenies Street, -LONDON, W.1.

(WHOLESALE AND EXPORT.)

PUFFS

LARGE VARIETY
OF ATTRACTIVE
GOOD - SELLING LINES.
ORIGINAL DESIGNS.

Write to Makers:

SPENCER BROS.
17 FARRINGTON AVENUE,
LONDON, E.C.4.



LINEs THAT SHOW GOOD PROFITS

Taylor's
CIMOLITE PREPARATIONS
50 YEARS' REPUTATION.
Used in all Royal Nurseries and by the Nobility.

- CIMOLITE TOILET POWDER.**
Boxes, 1/1½ (per doz. 9/6)
Tins, 3/-, 5/6, 11/- (per doz. 27/-, 49/3, 96/-)
Bottles, 3/3, 6/6 (per doz. 30/-, 55/6)
- CIMOLITE TOILET CREAM.**
Collapsible tubes, 1/3 (per doz. 11/6)
- CIMOLITE SOAP.**
Per tablet, 8d.; per box 2/- (per doz. 3 tab. boxes, 20/-)
- CIMOLITE FACE POWDER.**
Boxes, 1/1½ (per doz. 9/6)
Tins, 3/- (per doz. 27/-)
Bottles, 3/3 (per doz. 30/-)
- CIMOLITE SOAP (Violet-Scented)**
Per tablet, 8d.; per box, 2/- (per doz. 3-tab. boxes, 20/-)
- CIMOLITE SHAVING SOAP.**
Sticks, 1/3 (per doz., 11/6)



ATTRACTIVE SHOW CARD obtainable from all wholesalers or direct.
— PREPARED ONLY BY
JOHN TAYLOR, Manufacturing Chemist
30 BAKER STREET, PORTMAN SQ., LONDON, W.1

"Newbery's"
FRANCIS NEWBERY & SONS LTD.

Complete Range
DRUGGISTS' SUNDRIES

- including
- HAIR BRUSHES**
(Whalebone and Bristle)
- TOOTH BRUSHES**
(Bone and Celluloid)
- SHAVING BRUSHES**
(all kinds)

FRANCIS NEWBERY & SONS, Ltd.
London Cardiff Liverpool

Nuctone

for GREY HAIR

Fill the demand and increase your profits

Incomparable for Grey Hair, NUCTONE continues to meet with an ever-growing demand. There are many thousands of Grey-Haired men and women who will never use an instantaneous hair dye, but they would welcome NUCTONE. Bring it to their notice.

NUCTONE is the safe solution to the Grey Hair problem, *it restores the normal colour gradually* and without embarrassment—simply by the aid of light and air. In application nothing could be simpler—**just comb it through the hair.**

The harmlessness of NUCTONE is guaranteed, and its constituents are absolutely free from anything injurious, such as a combination of lead and sulphur or other skin irritants.

Introduce NUCTONE to your Grey-Haired customers NOW and make money.

Small size 3/9 per bottle. Trade terms 32/- per doz.
Large size 6/6 " " 52/- "

Showcards and explanatory booklets for free distribution are furnished on request.

- NUCTONE for dark and medium hair.
- NUCTONE ECLAIRE for fair and auburn shades.
- NUCTONE CONCENTRE for Gentlemen
(Supplied in the 6/6 size only.)

Obtainable from :

HENRY C. QUELCH & Co. Ltd.
4, LUDGATE SQUARE, LONDON, E.C.4,
and other Wholesale Houses.

Manufactured by :

STEWART, GOODALL & DUNLOP, LTD.
4, Dering Street, London, W.1.

NEW KOKO TOILET LINES

On the P.A.T.A. List. Allowing full margin of profit

KOKO VANISHING CREAM 1/6 per jar P.A.T.A., 13/6 per doz.

KOKO COMPLEXION POWDER 2/- per box P.A.T.A., 18/- per doz.

(In Natural, Rachel, White and Rose)

KOKO SHAMPOO POWDER DE LUXE 4½d. per pkt. P.A.T.A., 3/4 per doz.

(USUAL WHOLESALE TERMS)

AN extensive advertising campaign has been planned for the new line, together with "**KOKO FOR THE HAIR**," and space has been booked in practically every magazine and daily papers, including "DAILY MAIL," "MIRROR," "SKETCH," "EXPRESS," "CHRONICLE," "DAILY NEWS," etc., etc., for the remainder of the year.

SEND US A POSTCARD ASKING FOR PARTICULARS OF OUR GENEROUS WINDOW SHOW OFFER.

All orders for Koko Preparations should be sent to our Sole Distributing Agents,
Messrs. BUTLER & CRISPE, 80/82 Clerkenwell Road, London, E.C.1.

KOKO-MARICOPAS CO., LTD.,
16 Bevis Marks, London, E.C.3.

Telephone:
AVENUE 595.

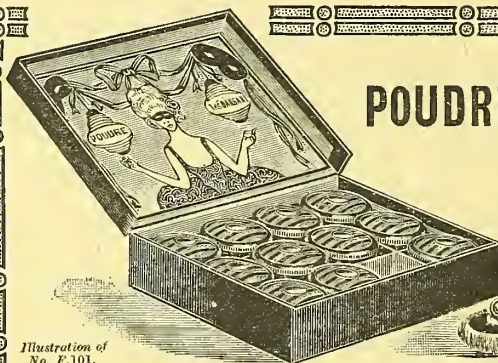


Illustration of
No. F.101.

BIG REDUCTION IN PRICE POUDRE COMPACTE—"THÉ DANSANT"

(Regd.)
In two } No. F.100 Complete with Puff ... 6/- doz.
styles } " F.101 " " " and diminishing Mirror 7/6 "

Improvements in our methods and the adoption of more efficient machines designed by ourselves enable us to decrease considerably our production costs of these two charming lines, and we pass on the reduction to the trade so as to keep our increased output fully engaged. You should give these British-made lines a trial.

Manufactured only by
SOLPORT BROTHERS, Ltd.
184/190 Goswell Road, London, E.C.1.
and obtainable through all Wholesale Houses.

ALSO
GREASE PAINTS,
POWDERS, ROUGES,
NOSE PASTE,
MAKE-UP BOXES,
REMOVING CREAM,
MANICURE,
COLD CREAMS,
COSMETIC, etc., etc.

A new Theatrical Line which is going like wild-fire.

L. LEICHNER'S REMOVING PAPER

This paper is a complete substitute for a towel in removing make-up. Rub a little of Leichner's Removing Cream or Cocoa butter on the face, spread well over, and remove with a sheet of the paper.

Sells for 1/6 a packet. Trade Terms on Application.

VANITIES Ltd.,
(Sole British Agents for)
L. LEICHNER
15a, Whitcomb Street,
London, W.C.2.

Write to us for our
Catalogues.

Peldo
(Patent applied for)

THE INVISIBLE GLOVE

We have been demonstrating at the "Ideal Home" Exhibition with great success, and have created thousands of new users. See page 346, C. & D., 8/3/24:—"The demonstrations of the use of 'Peldo' are creating crowds."

IF YOU SHOW 'PELDO' YOU WILL SELL IT!
'PELDO' IS ORIGINAL. It is not a Substitution for Anything.

Obtainable from all the Patent Houses @ **13/6** per dozen.
WINDOW DISPLAY MATERIAL FREE ON APPLICATION.

SOLE PROPRIETORS AND MANUFACTURERS:

C. R. HARKER, STAGG & MORGAN, LTD.
Devon Wharf and Bell Wharf,
EMMOTT STREET, MILE END, LONDON, E.1.

AN ATTRACTIVE LINE carrying a big margin of profit

Artifex brings new business because it does not compete with any existing line you carry



are the only All-Rubber Curlers; there are the most Curlers on a card, and they are British. There is no metal to harm the hair—women appreciate that; soft All-Rubber Curlers mean more comfort, too.

The women's papers now being used for displayed Artifex advertisements run into millions of copies a month. Sell the Curler that women prefer.

Attractive seven-colour show cards and other promotion matter will still further aid your sales.

Ask your wholesaler for particulars, or if you prefer, write in the first instance for full details to

ARTIFEX SALES DEPARTMENT

The MERKHAM TRADING CO. LTD.

Bush House ∴ Aldwych ∴ W.C.2

Floradew
(Non-Greasy) **2/9** Large Art
Flask

FOR SOFT WHITE HANDS AND ARMS

Soothes and relieves sunburn,
prevents blistering or peeling.

22/- from your **1/6** Size
wholesaler at **12/-**

Retailers and Provincial Wholesalers write for
attractive selling offer to—

FLORADEW CO., 27 Chancery Lane, London, W.C.2.

HERE IS THE LINE you must surely have
been looking for in order to **increase your
profits** and meet your customers' ever-
increasing demand.

"GALJADO" SCURF LOTION for all SCALP and HAIR TROUBLES.

Small size, 10/6 per dozen.	S.P. 1/6 per bottle.
Standard " 16/6 "	S.P. 2/6 "
Large " 33/- "	S.P. 4/6 "

"GALJADO" TOILET PREPARATIONS are universally
renowned, and are obtainable of all Wholesalers or direct.
Current price lists sent free on application to

THE GALJADO PERFUMERY CO., Ltd.
9 Goswell Road, LONDON, E.C.1.

WAITE'S ANTI-PY-O DENTAL CREAM

Which dentist made the biggest hit with his patient?



This man's dentist recommended a gummy, pasty dentifrice.

This man's dentist recommended "Waite's," a dentifrice of creamy consistency.

Waite's ANTI-PY-O DENTAL CREAM

has earned its great reputation in America by its wonderful efficiency in mouth hygiene.

The cleansing qualities of "Waite's" are fully recognised by the dental profession, and its success is due in large measure to professional recommendation.

You will like the unusually pleasant flavour of this dentifrice. "Waite's" is a thoroughly efficient cleansing agent. It removes the film from the teeth without harshness. "Waite's" destroys millions of germs in the mouth.

It is not a pasty, gummy preparation, but a velvet smooth cream which, when applied to the teeth, immediately fades away.

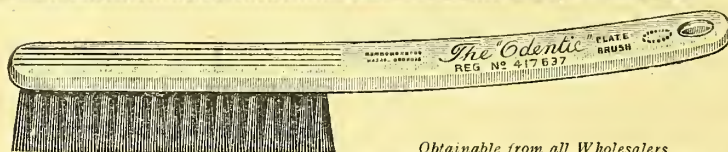
Chemists who recommend Waite's Dental Cream to their customers win their hearty approval.

Mail for a free full size tube of Waite's Dental Cream for your own use and tests. Convince yourself that it is the kind of dental cream you want your friends to use.

Sole Agents: **The Dental Manufacturing Co. Ltd**
Alston House, Newman Street.

Branches throughout the Provinces.

LONDON, W.1



Obtainable from all Wholesalers.

"ODENTIC" PLATE BRUSH

(Reg. No. 417637)

FOR ARTIFICIAL DENTURES

Manufactured by—

W. R. SPEER & SON (Estd. over 100 years.)
TOOTH-BRUSH MAKERS,
215 DALSTON LANE, LONDON, E.8



PAPIER POUDRÉ POPPœA ROUGE

Made in Booklet Form in White, Rose and Rachel tints.
4d., 6d., 8d., and 1/4 sizes at 2/8, 3/9, 5/- and 10/- per dozen
nett, respectively.

ONE SIZE ONLY 1/-, at 8/- per dozen.

Sole Proprietors and Manufacturers:

PAPIER POUDRÉ, Ltd., 46 Baker Street, W.1
NONE GENUINE WITHOUT ABOVE TRADE MARKS.



Telegrams: Raab, Roermond.

Aromatic Chemicals Flower Oils
Synthetic Perfumes Essential Oils

CHEMICAL WORKS, ROERMOND

H. RAAB & CO., ROERMOND, HOLLAND.

Agent for the U.K.:

MR. ALFRED PAUL WHITE, 5 Water Lane, Gt. Tower St., London, E.C. 3

Telegrams: Whaiter, Bilgate, London.

HOVENDEN'S TOILET PREPARATIONS



THE RIGHT LINES FOR THE CHEMIST
LATEST PRODUCTIONS. EXCEPTIONAL VALUE.
Attractively Finished. Black and Gold Labels.

BAY RUM & CANTHARIDINE

No. 4817.	2½ oz. (about)	.. .. .	6/9 doz.
„ 4818.	4 „ „	.. .. .	8/- „
„ 4819.	6 „ „	.. .. .	10/- „

BAY RUM

No. 4820.	2½ oz. (about)	.. .. .	6/9 doz.
„ 4821.	4 „ „	.. .. .	8/- „
„ 4822.	6 „ „	.. .. .	10/- „

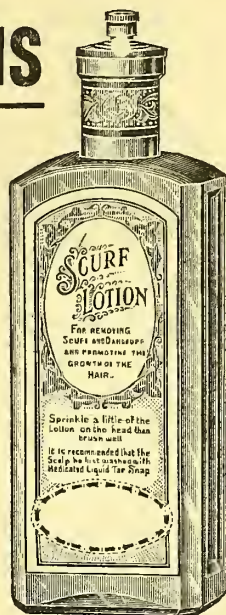
SCURF LOTION

No. 4825.	2½ oz. (about)	.. .. .	8/9 doz.
„ 4826.	4 „ „	.. .. .	10/6 „

Customer's name printed on 6 dozen of one line or assorted free of extra charge.

SPECIAL QUOTATIONS FOR QUANTITIES.

SPECIAL NOTE.—Each bottle sold bearing your Name is an advertisement for your business.



EMULSIFIED COCOANUT OIL SHAMPOO

Reduced Prices.
Quality Maintained.

No. 4801.

1/3 size, 4 oz. about (with Sprinklers) 7/3 doz. ; 84/- gross.

In bulk, 9/- gall. ; 1/3 lb.
5 gall. lots, 8/9 gall.
Containers extra.

Name and address free on 6 doz.

No. 4801

No. 4801.

CRYSTALLISED BRILLANTINE.



No. 4813.

7/6 doz.
Tins,
87/-
gross.

Name and
Address
Free on
6 doz.

MEDICATED LIQUID TAR SOAP.

A POPULAR LINE IN GREAT DEMAND



Highly recommended for Irritation of the Scalp, Dandruff, etc.

No. 4755.

Each in carton (as illus.)

10/6 doz. 120/- gross.

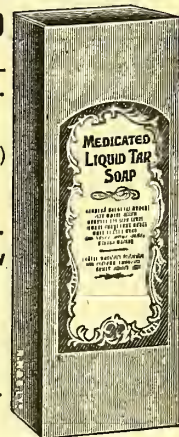
Once this article is introduced repeats always follow

In bulk, 8/6 gall.

Tins free.

Your name and address
printed free on 6 doz.

No. 4755.



WITCH HAZEL CREAM

THE SUMMER TOILET CREAM.

Especially Suitable for Seaside Trade.

A cooling Cream which protects the skin against sun and wind.

No. 4766. 2 oz. 9/3 doz.

Attractively finished.

Dummies for Window Show supplied FREE with order.

R. HOVENDEN & SONS, Ltd.

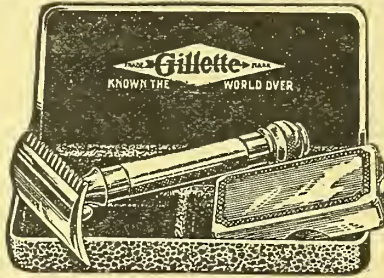
Tel.: Museum 2810 (3 lines). Factory: 41 to 53 BRITANNIA ROW, ISLINGTON, N.I. Tel.: Clerkenwell 7601, 7602, 7603 (3 lines)

29, 30, 31, 32 and 33 BERNERS ST., OXFORD ST., W.1, and 89, 91, 93 and 95 CITY ROAD, FINSBURY, E.C.1.



21/-

NEW IMPROVED GILLETTE
SETS 21/- AND UPWARDS.



GILLETTE COLLEGE
SET. A POPULAR
SET AT A POPULAR
PRICE.....

5/-



By Appointment
to His Royal
Highness The
Prince of Wales.

GILLETTE BLADES

PACKETS of 10
(20 shaving edges)

4/6

PACKETS of 5
(10 shaving edges) **2/3**

The Gillette Range meets
every shaving need — at
prices to suit all pockets.

It pays to stock the Gillette line. Each outfit sold
means one more regular customer for Gillette Blades.

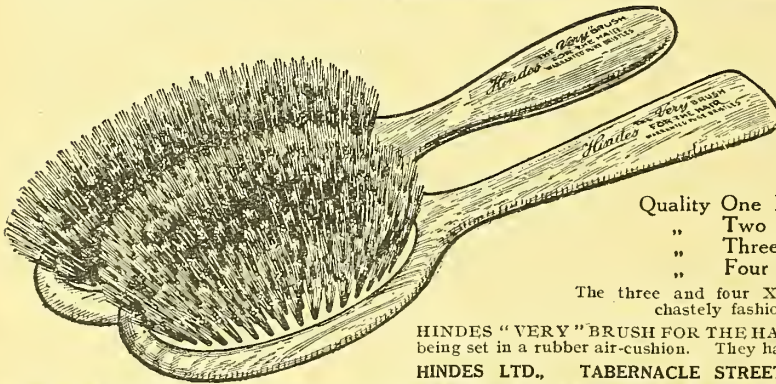
Write for latest price list and trade terms.

GILLETTE SAFETY RAZOR LTD.
184-188 Great Portland Street, London, W.1.

Gillette

SAFETY RAZOR
KNOWN THE WORLD OVER

NO STROPPING. NO HONING.



HINDES "VERY" HAIR BRUSH

Quality One X	Sold at 7/6d. each.	TRADE PRICE 33 1/3%
" Two XX	" 10/6d. "	
" Three XXX	" 15/- "	
" Four XXXX	" 18/6d. "	

The three and four XXXX grade is made in Ebony or Rosewood
chastely fashioned in both oval and circular bodies.

HINDES "VERY" BRUSH FOR THE HAIR is guaranteed pure bristles, the multiple tufts
being set in a rubber air-cushion. They have been known to the trade for nearly 40 years.
HINDES LTD., TABERNACLE STREET, LONDON, E.C. :: Works: BIRMINGHAM.

Bidwells'

YELLOW BRISTLE IN CENTRE—
WHITE BRISTLE ENDS.

IN TRANSPARENT TUBES;
STERILISED AND SEALED AT
FACTORY.



No 2

STRONG IN CENTRE WHERE STRENGTH IS REQUIRED.

17/- A DOZEN MEDIUM. 19/- A DOZEN HARD.

"Gloria" 1924 Model

REGD 314972

BEST QUALITY ONLY.
HARD AND MEDIUM.

HANDLES ASSORTED.
VENTILATED—
HOLE IN HANDLE.

Castle Mills | LONDON OFFICE AND SHOWROOMS:— | Axminster, Devon
Australia House, Strand, W.C.2

*Astounding
Value*

Read this offer—there's
MONEY IN IT!

TO every purchaser of one box of Gillette
Blades, we will give
ABSOLUTELY FREE OF CHARGE
one five-shilling Gillette Razor.

OUR price for one Box of Genuine U.S.A.
Gillette Blades is $31/8$ less $2\frac{1}{2}\%$ dis-
count for prompt cash, together with
one bonus Gillette Razor.

THE boxes, by the way, contain either ten
packets of ten blades, or twenty packets
of five blades, as desired.

THE blades sell at $4/6$ per packet of ten or
 $2/3$ per packet of five so that each box
of blades realises £2-5-0; add to this
the 5/- bonus razor, making total of 50/-.

50/- for 30/11

**THIS
5/-
GIFT
FREE**



Beacon Gillette.

Dark blue leatherette case, containing
gold plated razor, and two blades
(four shaving edges) in gold plated
chased blade box.

They are the Genuine
U.S.A. Gillette !

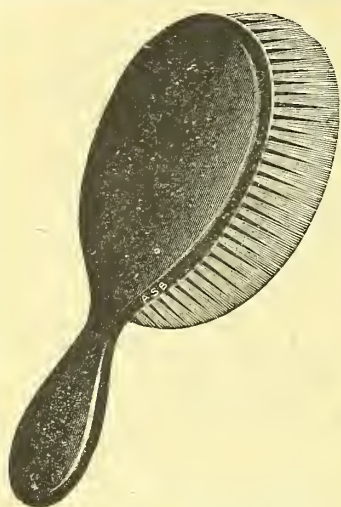
Obtainable from

Osborne, Garrett & Co., Ltd ,
LONDON, BIRMINGHAM AND
GLASGOW.

&

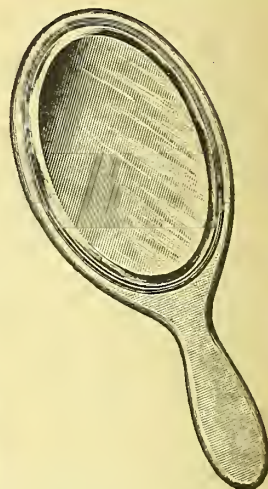
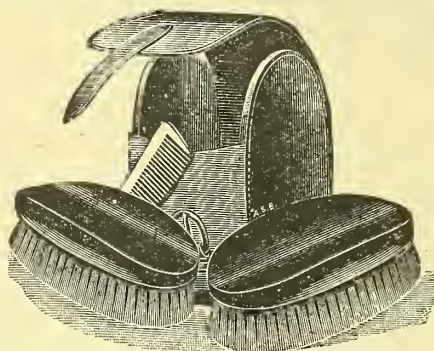
SANGERS
258 EUSTON ROAD, N.W.1.

WHOLESALE ENQUIRIES: OGEE SELLING SERVICE LTD., 51-54 FRITH STREET, W.1.



GREAT VARIETY

REAL AND IMITATION
Tortoiseshell, Ebony and Ivory
TOILET GOODS



ALWAYS IN STOCK.

EVERYTHING FOR YOUR FANCY GOODS DEPARTMENT
SEND TRADE CARD FOR ILLUSTRATED CATALOGUE

ADOLPH SCOTT, Ltd. —24, 25 & 26— **BIRMINGHAM**
Gt. Hampton St.

KEEN PRICES FOR CASH.
70,800 DOZEN GENUINE
GILLETTE BLADES

To be cleared in 10 days.

If Wiring - - - Wards, Warrington.
If Phoning - - - 857 Warrington.
If Writing - - - Wards of Warrington.

WARDS

G. B. KENT & SONS, LTD.

Are known the World over as
the Largest Manufacturers of

BEST
BRITISH
BRUSHES

Please write for full Particulars to—
75 Farringdon Road, E.C.1.

PROTECTION—

for all Fragile, Delicate and Precious Goods in the Post

YOU can obviate all risk of articles being struck by the metal Post Office stamp by using **AMAN'S PATENT SAMPLE BAGS**. Made in a large variety of sizes, of strong calico, with simple string draw-up fastener, and having a strong linen label attached, these bags **GUARANTEE** protection through the post. **AMAN'S BAGS** will not come undone in transit, thus preventing delay or loss.

THEY SAVE MUCH and COST LITTLE



WRITE for SPECIMENS to:—
ROCKLIFF BROS. Ltd.
44 CASTLE STREET, LIVERPOOL

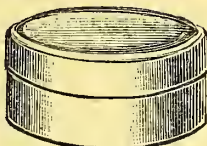
ALUMINIUM OINTMENT BOXES

Fill the gap between the chip box and the porcelain pot. Try an assorted dozen.. You will find them just what you want.

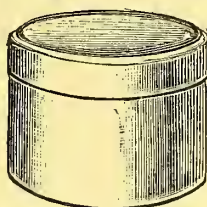
REDUCTION IN PRICES

PRICES (either shape, tall or flat):

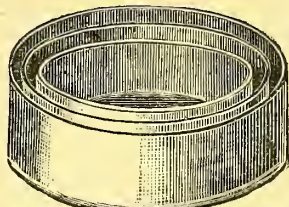
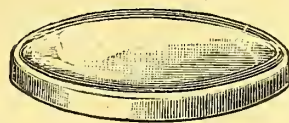
Per gross : $\frac{1}{4}$ oz. 9/-
 " $\frac{1}{2}$ oz. 12/-
 " 1 oz. 16/6
 " 2 oz. 27/-



$\frac{1}{4}$ oz.



1 oz. TALL.



FLAT SHAPE NESTED.

$\frac{1}{4}$ oz. $\frac{1}{2}$ oz. 1 oz. 2 oz.

(The 2 oz. tall shape is similar to the 1 oz. size but twice the height.)

Chemists everywhere are taking up the use of these for their preparations. Their light weight as compared with porcelain pots makes for much saving in regard to carriage, the nested ones being specially suited for export.

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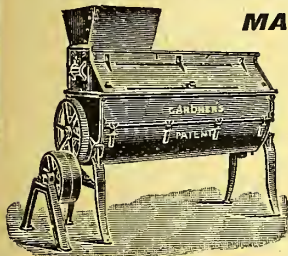
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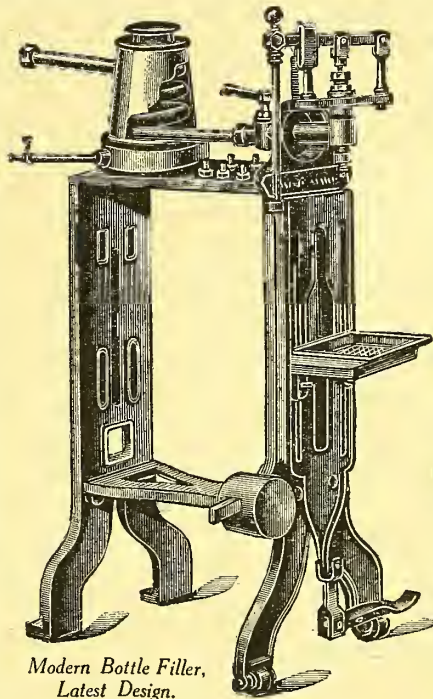


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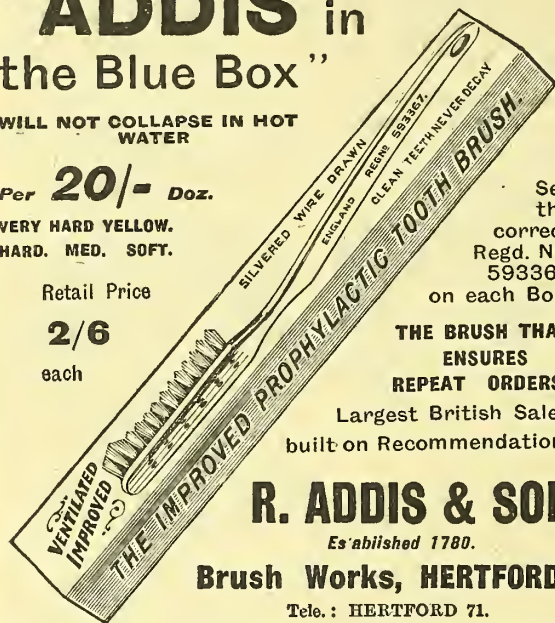
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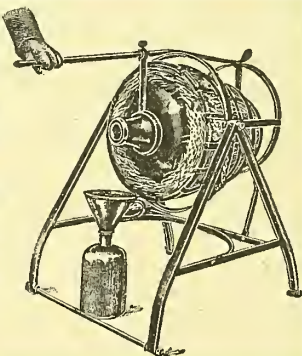
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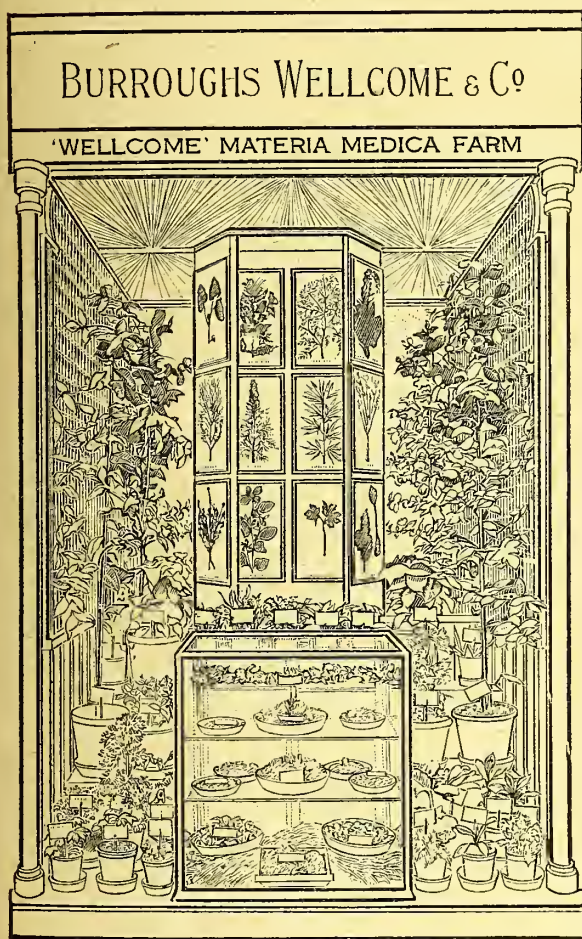
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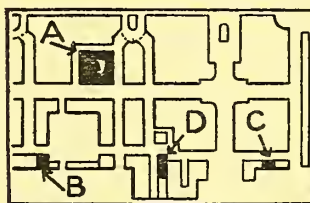
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Nature Pictures of Medicinal Plants

THE series of nature pictures of medicinal plants which have been issued with THE CHEMIST AND DRUGGIST during the months of January-May have attracted much attention on account of their beauty. As we have received many requests for duplicate copies of these pictures we have decided to issue the series of four plates (eight plants) in an envelope at 2s. 6d. post free. Cash should accompany order. The plants pictured in the series are:—

Aconitum Napellus
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Conium maculatum
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Valeriana officinalis
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English and Welsh News

The Editor would be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Dangerous Drugs Acts, 1920 and 1923

(From "The London Gazette," June 6, 1924)

WITHDRAWAL OF AUTHORITY

(DR. CHARLES HENRY JAMES ROBINSON)

Whereas Dr. Charles Henry James Robinson, M.R.C.S., L.R.C.P., lately of 23 Taswell Road, Southsea, and now of "Elmhurst," Bosham, Sussex, has been convicted of an offence against the Dangerous Drugs Acts.

And whereas the said Dr. Charles Henry James Robinson cannot, in my opinion, properly be allowed to be in possession of or supply raw opium or any of the drugs to which Part III of the Dangerous Drugs Act, 1920, applies.

Now, therefore, in pursuance of the powers conferred on me by No. 6 of the Raw Opium Regulations, 1921, and No. 12 of the Dangerous Drugs Regulations, 1921, I hereby give notice that I withdraw, as from to-day's date, from the said Dr. Charles Henry James Robinson the authorisations granted by the said Regulations to duly qualified medical practitioners to be in possession of and supply raw opium and the drugs to which Part III of the Dangerous Drugs Act, 1920, applies.

ARTHUR HENDERSON,

One of His Majesty's Principal Secretaries of State.
Whitehall.

June 6, 1924.

Visit to Vinolia Works

Members of the Birmingham Pharmaceutical Association and their friends, numbering about 100, with several pharmacists from Lancashire and Cheshire, were the guests of Vinolia Co., Ltd., at Bebbington on June 11, when an enjoyable time was spent at the model village of Port Sunlight. The morning was occupied in a brief inspection of the Lady Lever Art Gallery, in the old Tudor Banqueting Hall of which luncheon was served. Mr. H. R. Greenhalgh (vice-chairman, Lever Bros., Ltd.), Mr. C. W. Barnish (managing director of the Port Sunlight factory), Mr. F. A. Lawman (vice-chairman, Vinolia Co., Ltd.), and other officials welcomed the guests, and there was a telegram from Mr. L. H. Hartland-Swann, C.B.E. (chairman of Vinolia Co., Ltd.), conveying his wishes for an interesting afternoon. Mr. Greenhalgh, on behalf of Lord Leverhulme and the directors of the two companies, extended a cordial welcome to the guests. He referred to Port Sunlight as a monument to the work of Lord Leverhulme, and, in illustration of the large scale upon which its industrial operations were conducted, said that they employed over 100 chemists. Mr. Greenhalgh expressed the opinion that trade was recovering with surprising rapidity when they reflected upon all that had taken place during recent years. The toast of "The Visitors" was seconded by Mr. Lawman, who expressed the Vinolia Co.'s gratification at the visit paid that day by pharmacists from Birmingham, Manchester, Chester, and Southport. Applause greeted his announcement that seventy-three candidates had entered for the pharmaceutical scholarships endowed by Lord Leverhulme. He mentioned that Vinolia Co. had been founded by Dr. Eccleston Burrows about thirty-five years ago, and one of the gentlemen who was associated with him in that inauguration—Mr. J. Hills-Hartbridge, recently retired—was among those whom they welcomed that morning. Mr. H. Rigg (President of the Birmingham Pharmaceutical Association), responding, said that Vinolia had a name and reputation of which it might well be proud. The visitors hoped that under the wise counsel and guidance of the chairman, supported by his able band of assistants, they would increase that good name and retain the esteem of pharmacists everywhere. The tour of the factory commenced with the manufacture of household, and passed on to that of toilet soap, the pleasant conditions in which the work was proceeding in both departments exciting general admiration. Visits were paid to one of the works laboratories and the research department; and the tour concluded in the Vinolia works at Bebbington, where the processes associated with the production of tooth-pastes, bath crystals, perfumes and kindred accessories of the toilet

were followed with much interest. During tea Mr. H. O. Lloyd made an appeal on behalf of the Benevolent Fund, and a collection was made. Afterwards films dealing with the growth and transport of raw materials were displayed, the intervals between the pictures being agreeably filled by contributions from the male voice choir of the Port Sunlight Operatic Society.

Business Research Association

As an outcome of the activities of a number of business men, the Business Research Association of Great Britain has been founded, with the idea of promoting for the general good of business the more extensive use of research of all kinds. Several experts have undertaken to give a series of addresses on business topics during the coming months. Among the principal speakers are: Mr. H. Gordon Selfridge (on "The Cost of Doing Business by Retail"); Dr. A. L. Bowley, Professor of Statistics in the University of London (on "The Place of Statistics in Business"); Sir Stanley Bois, of the Rubber Growers' Association (on "Development of Markets for Basic Industries"); Mr. Charles Tennyson, C.M.G., Deputy Director of the Federation of British Industries (on "The Application of Design in Marketing"); and Mr. Cecil Chisholme, chairman of Business Publications, Ltd. (on "Simplification as Successfully Applied to British Production and Marketing"). In addition, there will be a general session for the discussion of national and international trade, some of the leading speakers being Sir Eric Geddes, the Rt. Hon. Winston Churchill, Sir Philip Lloyd-Graeme, and the Vice-President of the Guarantee Trust Co. of America. Members of the trade wishing to hear any or all of these addresses will be willingly granted facilities on application to the offices of the Business Research Association, 1 Arundel Street, Strand, London, W.C.2.

Public Institution News

Several well-known chemists who specialise in hospital *locum* work are booked up until October, engagements for August being made as long ago as April.

The West Ham Guardians have appointed a qualified man as part-time assistant to Mr. G. R. Evans, pharmacist at the Whipp's Cross Hospital, London, E.11.

Miss E. K. Fordyce, chemist and druggist, for some years chief dispenser at the City of Westminster Infirmary, London, S.W., has retired through ill health, and has been granted a superannuation allowance.

The Pharmaceutical Society's qualification is now almost a *sine qua non* for applicants for dispenserships at hospitals and public institutions. The Dangerous Drugs Act Regulations have probably been the cause, as public authorities find things work more smoothly if the dispenser is an "authorised person" by virtue of his qualification.

So far as the St. Pancras (London) Hospital is concerned, the chairman of the Guardians has made a spirited reply to Lord Knutsford's remarks regarding the efficiency of poor-law hospitals. Up-to-date operating, x-ray and massage departments are provided. The chairman, after alluding to the number of cases admitted during the year from local voluntary hospitals, invites Lord Knutsford to visit the two hospitals under the Board's administration.

The Society of Radiographers is taking a vote on a resolution put forward by a group of members to the effect that "No member shall make any report or diagnosis on any radiograph or screen examination." It appears that the medical profession object to the action of certain radiographers in making examinations and giving reports without medical supervision. The framers of the resolution assert that, unless the motion is carried, radiologists will withdraw the support they have hitherto given to the Society of Radiographers. The M.S.R. qualification is now requisite to secure appointment at hospitals as radiographer, and it is feared that, without medical support, holders of this diploma might be barred.

Birmingham

Though most local traders closed on Bank holiday and the following day, chemists were invariably to be found in business on the Tuesday. Trade in the city, however, was fairly quiet.

The collection of British birds belonging to Mr. R. W. Chase has been purchased for the Birmingham Natural History Museum. Mr. Chase is a relative of Mr. T. Chase, Ph.C. (T. Chase & Co., Broad Street), and is well known as a brush manufacturer.

At a meeting of the Greater Birmingham Employment Committee, on June 4, under the chairmanship of Mr. Marshall Freeman, barrister-at-law and pharmacist, a resolution was passed requesting the Minister of Labour to extend and put into operation the Unemployment Insurance (Courses of Instruction) Regulations, 1921, in respect of adult applicants who have failed to obtain employment in their particular occupations by reason of a low standard of efficiency.

Liverpool

The Isle of Man was the resort of a fair number of Liverpool pharmacists for the brief Whitsun vacation.

Rain has continued to harass the tennis players of the Liverpool Pharmacists' Club. On Whit-Sunday, however, play was commenced for the season, and on Monday an American tournament followed.

Masonic members of the Liverpool Chemists' Association regret to find that the Association's trip to Ellesmere on June 18 clashes with the Prov. Grand Lodge annual meeting at the Philharmonic Hall.

A consistent advocate of the potency of personality in business, a favourite theme of Lord Leverhulme, states that on visiting a large town in the South he entered eight pharmacies without finding anyone but a female in charge. At a small town in the North, he learned that for three days there had not been one pharmacist at home.

The latest Wembley story, told in a local pharmacy. A man, his wife and their nine children went to Wembley on Whit-Monday. On counting up before leaving for Euston one boy, aged twelve, was missing. At last the rest of the party left for home. On reaching home they found that the missing boy had been in bed three hours. The Wembley authorities, to whom he reported his isolation, had packed him off North by the first train.

Manchester

A large circle of retail chemists throughout Lancashire and the North have recently learned, with great regret, that Mr. J. H. Hetherwick, the well-known and much-esteemed traveller of Oldfield, Pattinson & Co., wholesale chemists, Manchester, has been ordered a prolonged rest by his medical adviser on account of failing health. Mr. Hetherwick has been one of the most genial and helpful of "knights of the road," and it is hoped that he will speedily be restored to his customary vigour.

Members of the Manchester Chemists' Golf Society turned out in good numbers to compete for Mr. R. Hough's prize at the Withington Golf Club on June 4. After a splendid afternoon's play, in which twenty took part, the following were found to be the leading scores:—

J. W. Aves ...	87—8—79	J. H. Blyton ...	98—9—89
T. Miller	89—10—79	J. H. Nidd	103—18—90
J. A. Collins ...	82 sc=82	R. Balf	110—18—92
T. O. Owens ...	84—1—83	E. S. Bury	106—13—93
A. H. Turner ...	95—10—85	R. G. Edwards	104—10—94
G. R. Potts	97—12—85	E. Fox	107—13—94

Mr. J. W. Aves and T. Miller tied and had to play off, Mr. Miller winning on the replay.

Miscellaneous

PARLIAMENT ADJOURNS.—The House of Commons on June 6 adjourned for the Whitsun recess until June 16.

POISONING.—At the resumed inquest, on June 10, on the body of Mr. James G. Watkins, licensee of the "White Lion," Clifton-on-Teme, the county analyst certified that the organs submitted to him contained

0.4 gr. of strychnine. A verdict of "Suicide while of unsound mind" was given.

CHEMICAL WORKERS' WAGES ADVANCED.—The Industrial Court, adjudicating in the recent dispute over wages in the heavy-chemical trade, has decided that the wages of adult male time workers shall be advanced 5d. a day or shift; of adult female time workers 4d. a day or shift; and that pieceworkers shall receive equivalent advances.

STAFF OUTINGS TO WEMBLEY.—About 150 members of the office and warehouse staffs of Goodall, Backhouse & Co., Leeds, visited the British Empire Exhibition on June 10. The party left Leeds at 2.25 a.m., and was conveyed from King's Cross to Wembley by charabancs, visiting St. Paul's Cathedral, Westminster Abbey, and Buckingham Palace *en route*.—Elaborate arrangements have been made by Lever Bros., Ltd., for their employees to visit the Exhibition; on June 30 and the following four Mondays five special trains are being run from Port Sunlight and district. It is estimated that 14,500 will take advantage of the company's invitation.

IN THE COURTS.—At Worcester Police Court, on June 4, Ronald Morton Cameron, described as a chemist's apprentice, was committed for trial on a charge of maliciously wounding Mr. Frederick Bates, chemist and druggist, manager of a local branch of Boots, Ltd. The chief constable said that the prisoner, who left the employ of Mr. Bates about three months ago, entered the shop on June 3. Mr. Bates, when walking towards the door, received a severe blow on the head with a heavy instrument; he closed with the prisoner, who tried to strangle him.—At Worcester County Assizes, recently, William Leslie Carter, described as a chemist, pleaded "Guilty" to a charge of forging bankers' cheques for £18, £33 and £40 belonging to his employers, Woodhall & Co., Ltd., manufacturing chemists, Oldbury (*C. & D.*, June 7, p. 784). Mr. Clarkson, for the defence, attributed the prisoner's downfall to a false sense of values, which he had evinced ever since his service in the Army. The judge imposed a sentence of nine months' hard labour.

Summer Outings

Walthamstow Chemists Entertained

A number of Walthamstow chemists and their assistants assembled in the garden of Mr. D. H. Fromow (Vice-President of the Walthamstow Pharmaceutical Association) on May 22 to celebrate the winning of the Maw's Challenge Shield. A photograph of the party was taken, after which croquet, quoits and other games were played until dusk, when the party adjourned to the house for refreshments.

A Meggeson Event

THE directors of Meggeson & Co., Ltd., lozenge manufacturers, New Church Street, London, S.E., invited their staffs and employees to spend June 7 in the country. The headquarters was a hotel in Hindhead, bordering a spacious common. A start was made at 8.30 a.m., and the weather enabled the party to enjoy to the full the delightful ride and the cross-country rambles that took the place of formal sports. The chair and vice-chair at the substantial dinner (during which an orchestra played selections) were respectively occupied by Mr. H. Vincent Dodd and Mr. Arad Feather, directors; and the toast list comprised "The Firm" and "Our Guests." The former of these was proposed by Mr. S. J. Massey, senior town representative, and acknowledged in genial terms by Mr. Dodd, who was very heartily received. Mr. Feather gave those present a cordial welcome in submitting the latter toast, and Mr. H. W. Nott, senior clerk in the country department, voiced the general thanks to the directors. Tea was served at the hotel shortly before the return journey. It was noted by someone with a genius for statistics that the united ages of the veterans in one of the charabancs amounted to 889 years—a gratifying record.

Scottish News

Scottish Chemists' Bowling Association

The annual competition for the Ayrton Saunders Trophy, held at Kirkcaldy on June 4, resulted as follows:—

Victoria Green

J. A. Cochrane, Edinburgh	36	J. A. Nisbet, Glasgow	12
A. W. Ritchie, Montrose	24	W. D. Paterson, Glasgow	19
H. P. Arthur, Glasgow	21	H. G. Riley, Edinburgh	19

Kirkcaldy Green

G. Jarvie, Kirkintilloch	30	F. Stuart, Broxburn ...	13
C. J. Stuart, Paisley ...	25	D. Matthewson, Edinburgh	9
J. R. Milne, Dundee ...	24	A. G. Sutherland, Glasgow	12
J. W. Bennie, Polmont	27	J. Geddes, Edinburgh	16

West-end Green

J. B. McLaren, Kirkcaldy	27	C. A. Levie, Dundee ...	15
M. Wallace, Glasgow ...	25	J. Carmichael, Leslie ...	17
G. MacDonald, Glasgow	22	W. Studman, Edinburgh	21

The members of the winning rink were Messrs. W. W. Hunter, H. P. Morrison, C. R. Brown and J. A. Cochrane, the runners-up being Messrs. A. McLennan, G. MacNaught, G. F. Robertson and G. Jarvie. The final for the Travellers' Trophy, between Mr. J. Carmichael (Leslie) and Mr. G. MacDonald (Glasgow), was won by the former by twenty-one to twelve. At the annual meeting held after the game the office-bearers were elected as follows: *President*, Mr. J. B. McLaren, Kirkcaldy; *Vice-President*, Mr. F. Stuart, Broxburn; *Secretary and Treasurer*, Mr. J. T. Simpson, 268 Crown Street, Glasgow; *Committee*: Messrs. G. Jarvie, J. H. Tainsh, and J. Carmichael. It was decided to hold next year's competition in Edinburgh. Entries for the single-handed competition for retail chemists in Scotland must be forwarded to Mr. Simpson not later than June 18.

Brevities

A number of chemists from this side of the border are at present on holiday, which, in most cases, includes a visit to Wembley.

At Stirling Burgh Police Court, on June 3, T. A. Young, described as the local sub-agent of the United Chemical Co., Ltd., Glasgow, was sentenced to forty days' imprisonment on a charge of embezzling money belonging to his employers.

Edinburgh

At Edinburgh Police Court, on June 11, William Lawrie King, apprentice to a chartered accountant, was remanded on a charge of murdering his mother by means of arsenic and with attempting similarly to kill his father.

At the luncheon of the Edinburgh Rotary Club, on June 5, Mr. W. Sholto Sheppard, local representative of Parke, Davis & Co., who was the principal speaker, gave a talk on the subject of air transport on a commercial basis.

Edinburgh Pharmacy Athletic Club will hold its twenty-ninth sports meeting in Powderhall grounds on June 25 at 6.30 p.m. Among the events open to the trade are the five-a-side football final, 120 yards, 220 yards and half-mile handicaps, ladies' race and relay race, and a message boys' race. There is also a relay race, Edinburgh Pharmacy Athletic Club versus Glasgow Pharmacy Athletic Club.

Glasgow

J. H. Smith & Co., chemists, 9 Virginia Street, are shortly removing to 12 Glassford Street.

Mr. J. D. McNaught, chemist and druggist, has taken over the business of Mr. S. Levine, chemist and druggist, 41A Morrison Street, Govan.

Mr. W. N. Stewart, chemist and druggist, 464 Argyle Street, has taken over the business of the late Mr. P. Ballingall, chemist and druggist, 1,136 Dumbarton Road, Whiteinch, and will carry it on as a branch.

Irish News

Chemists' Wine Licence Compensation

At Belfast Compensation Tribunal, on June 4, the Recorder gave judgment in all the claims, heard to date, by chemists for compensation for the loss of their wine profits, under the Northern Ireland (Intoxicating Liquor) Act, 1923, as follows: W. J. Hardy, 20-22 Castle Place, £175; W. E. Wilson, 31 North Street, £460; I. W. Nicholl, Ltd., 25 High Street, £100; D. Henderson, 549 Lisburn Road, £190; A. McNaught, Bridge End, £15; H. Todd, 72 Holywood Road, £450; R. Andrew, 75 Crumlin Road, £295; R. Morrow, 25 Corn Market, £285; A. McI. McCurdy, 46 York Road, £150; J. Nesbitt, 82 Old Lodge Road, £130; J. Dale, 124 Newtownards Road, £40 12s. 6d.; G. Scott, 309 Antrim Road, £220; Annie Hay, 138 Lisburn Road, £100; W. J. Busby, 81 Duncarn Gardens, £335. Judge Thompson, in giving the decisions, made a general statement, in the course of which he said it would be clear to those who had been engaged in putting forward cases that the awards that were to be made were not based upon the market price. The basis of the assessment of compensation was laid down by the Act, except in the case of fittings where no special machinery was provided for arriving at it. Accordingly, it might result that in some cases awards would be greater than they would have been if the Tribunal had been considering it on the basis of market loss, and in some cases it might be less. What they had to consider was a figure that had not been fixed by that Tribunal but by the Commissioner of Valuation, and what they had to consider in regard to profits was not the actual profits that had been made, but the profits that were brought into charge for the purpose of income tax. As to the further question argued before them, one of considerable importance to the parties also—viz., whether or not the Tribunal had jurisdiction to give costs—that they had considered very carefully, and they had come to the conclusion they had no jurisdiction to give costs, though it was very unfortunate it was so. His personal view was that the man whose property was being taken away from him should get costs of maintaining his claim for compensation. He thought that was the view of the Tribunal, and it certainly was his, but they were bound by the terms of the Act of Parliament; but while they had that feeling in regard to the award of costs he thought perhaps the Ministry also had the same feeling. On consideration, however, they had come to the conclusion they had no jurisdiction to award them.

Chemists' Golfing Competition

On the invitation of Mr. J. A. Woodside, Ph.C., Ballymena, the sixth annual competition, confined to members of the drug trade, for the valuable challenge cup presented by Mr. Wm. McMullan, Belfast, took place on the Ballymena links on June 3. During the day the visitors and their friends were entertained to luncheon by Mr. Woodside. The competition consisted of a preliminary stroke round of eighteen holes, and a final round. In the stroke competition the players were divided into two classes: Class A, under 18 handicap; Class B, 18 and over. The following were the best cards returned:—

Class A.—H. M. Irwin, 86—10=76; G. W. T. McCann, 90—14=76; W. J. Shaw, 92—16=76; H. Rankin, 92—15=77; J. Macauley, 94—17=77; L. J. Woodside, 90—11=79; A. Leitch, 94—14=80; R. J. Crawford, 93—12=81; A. Morris, 95—14=81; A. W. Mann, 96—15=81; C. O'Hagan, 91—8=83; I. A. Smith, 96—13=83; F. D. McMullan, 95—7=88.

Class B.—R. L. Clarke, 98—22=76; H. McRoberts, 95—18=77; W. J. Busby, jun., 99—16=83; J. B. Breakey, 101—18=83; R. Linehan, 106—18=88.

The tie in Class A was decided over nine holes, and resulted in Mr. McCann qualifying for the final. In the final eighteen holes match play between Messrs. McCann and Clarke, the former won after a keen game, and thus retains the cup for a second year in succession. In the afternoon a consolation nine-hole stroke

competition, for prizes presented by Mr. J. A. Woodside, resulted as follows:—

W. J. Shaw, 43—8=35; R. J. Crawford, 43—6=37; W. J. Busby, jun., 45—8=37; H. McRoberts, 46—9=37.

The first prize was awarded to Mr. Shaw, and the second and third prizes of golf balls were divided equally between the three who tied. During the luncheon interval the annual business meeting of the Golfing Association was held, Mr. J. A. Woodside presiding. The following was the result of the elections: *President*, Mr. William McMullan; *Vice-Presidents*, Messrs. H. G. Pring, W. J. Hardy, H. R. Haslett, T. W. McMullan, A. W. Mann, and J. A. Woodside; *Committee*, Messrs. J. J. Breakey, H. P. Crossin, James Dundee, A. Leitch, James McAuley, A. Morris, J. M. Poots; *Treasurer*, Mr. H. McRoberts; *Secretary*, Mr. W. J. Rankin, jun. Mr. W. J. Hardy proposed a vote of thanks to Mr. Woodside for his hospitality. Mr. Hardy said he would like to join in the proposal the names of Mrs. Woodside and those lady members of the Club who entertained them to tea during the afternoon. The proposal, seconded by Mr. J. Walsh, was conveyed by Mr. F. T. Smith, J.P. A vote of thanks to Mr. W. J. Rankin, jun., for so efficiently carrying through the arrangements for the day was proposed by Mr. Woodside and seconded by Mr. J. Dundee and passed unanimously. It was decided to hold a friendly competition at Helen's Bay during September, and Mr. R. F. McCartney, J.P., Coleraine, intimated his desire to entertain the party for the competition in 1925 at links to be decided on later.

Dublin

In the Dail, recently, Mr. Johnson (Labour) demanded an explanation from the Local Government Department of the giving of a contract to an English manufacturer for shaving brushes. It had been said that the price was only half that at which the Irish manufacturers quoted, but it was claimed the brushes were much less than half as good as the Irish manufacturers could make. What test, he asked, had been applied by the Trade Department to make sure these brushes were free from contamination? Mr. Burke, Local Government Department, said the contract was given at a much lower price than that in any Irish tender, and a guarantee was given that the brushes would be supplied free from infection.

The Revenue Commissioners of the Irish Free State have issued the following notice with regard to duties chargeable under the Safeguarding of Industries Act 1921:—The Budget proposals contemplate the abolition, as from May 12, 1924, of the Customs duties at present chargeable under the Safeguarding of Industries Act 1921. This change will not, however, have legal effect before the date on which the Finance Bill becomes law, and, in the meantime, the Revenue Commissioners have no legal authority for refraining from collecting those duties. They are prepared, however, in the case of goods liable to duty under the Act referred to, which are imported in the ordinary course of trade, to accept in lieu of payment of duty an undertaking given by the importer or his authorised agent, in the form given, to pay the duty in the event of the proposed abolition not becoming legally effective, or of its being made effective from such a date as to render the goods covered by the undertaking eventually liable to duty. Subject to the production of the undertaking in the required form, documentary evidence of the value will not generally be called for in support of the value declared on the Customs entry unless it ultimately becomes necessary to collect the duty.

Londonderry

At the Londonderry United Constabulary sports on June 7 prizes were presented by Mortimer & Co., wholesale druggists, Foyle Street, Mr. James Glendinning, Ph.C., and Mr. H. E. Young, Ph.C.

Mr. H. E. Young, Ph.C., Strand, is exhibiting a series of photos of the s.s. "Metz," built at Londonderry, a model of which is on view at Wembley. Some interesting photos of Wembley are on view at the premises of Mr. A. E. Dickson, Ph.C., Waterloo Place.

French News

(From the "C. & D." Paris Correspondent.)

PHARMACIST DEPUTIES.—The results of the general election show two new pharmacists as deputies, M. André Roux (Haute Loire) and M. Lainé (Sarthe). The number of pharmacists who figured as candidates was large, and among the unsuccessful ones were M. Charles Bernard.

PARIS SALON.—There are few pictures of scientific interest in this year's Salon, but the sculpture hall contains two full-length bronze figures of the late J. H. Fabre. The monument which will be erected at Serignan is by Auguste Mailland, and shows the famous entomologist seated, with a magnifying lens in one hand. The other monument is to be erected in the savant's native village, and represents him standing by a tree trunk watching a procession of caterpillars, a familiar feature to all who have read his works.

THE MARSEILLES "AFFAIRE."—The judgment (the reading of which occupied five hours) condemned five pharmacists to a fine of 3,000 francs each, in addition to which their shops are closed for specified periods, ranging from five months to thirty months. The tribunal fixed the amounts to be refunded to the State in the case of pharmacists at 60 per cent. of the amount of their accounts. The damages thus assessed amounted to 733,768, 122,422, 118,878, and 324,529 francs respectively. A number of doctors were sentenced on similar lines.

MEDICINAL RAW MATERIALS.—M. Michel, President of the Wholesale Druggists' Association, recalled the other day that the Committee for Medicinal Plants and the Office of Raw Materials (crude drugs) would shortly commence the sixth year of its existence. The culture and gathering of indigenous medicinal plants is becoming general throughout France. The importation of foreign medicinal plants, which reached 100,000 quintals in 1919, fell in 1922 and 1923 to 53,000. The greatest efforts had been made to nationalise certain products hitherto imported from abroad, many problems being studied, especially regarding camphor and cinchona. Only one-third of the Committee's finances comes from the State, two-thirds being contributed by manufacturers and business men.

THE MOISSAN LEGACY CASE has at last been decided by the First Chamber of the Paris Courts. It will be remembered that Louis Moissan, only child of Henri Moissan (of electric furnace and artificial diamond fame), was a preparator at the Paris Faculty of Pharmacy. When the war broke out and he was mobilised, he made his will, leaving 200,000 francs to the Faculty of Pharmacy as a prize foundation. On August 10, 1914, he was killed by a German bullet at Billy-sous-Mangiennes, where he was buried. The papers found on his person were deposited at a neighbouring town hall. All this territory being then occupied by the enemy, the matter lay over for four years and more. After the Armistice seventeen cousins and other heirs-at-law of the deceased disputed the will. In March 1922 a decision was given in favour of the Faculty; this was appealed against by the relatives, but has now been confirmed.

MEDICINAL PLANT CONGRESS.—The fourth Congress of the National Office of Medicinal Plants was opened in Lyons, on May 30, and among the numerous participants were Professor Perrot, director of the office; M. Fromont, president of the syndicate of the drug and herb trades; MM. de Poumeyrol, Poizat, Jourdan, Gignoux. The first day was devoted to a visit to the plantations in the vicinity of Lyons and the experimental station of Bron. At the dinner, in replying to the toast of the Office National, Professor Perrot stated that the creation of this organisation, designed to promote the cultivation and collection of indigenous medicinal plants, was really originated in Lyons, and was due to the initiative of MM. de Poumeyrol, Prothière and others. Already the importation of medicinal plants into France has decreased by 50 per cent., and the time was near when it would be possible to begin exporting medicinal plants, either in the form of crude drugs or as manufactured preparations.

Colonial and Foreign News

BULGARIAN EXPORT LEVY.—A new tariff establishing the duties chargeable on exports has recently been introduced in Bulgaria. The export levy on opium amounts to 200 leva per 100 kilos, and 30 leva per kilo on rose oil, calculated on the net weight.

NORWEGIAN PHARMACEUTICAL SOCIETY.—At the initiative of Herr J. A. Brendel, the indefatigable general secretary of the Norwegian Pharmacists' Association and editor of its official journal, "Norges Apotekerforenings Tidsskrift," a Norwegian Pharmaceutical Society has now been formed. The objects of the Society are to promote the scientific as well as practical progress of Norwegian pharmacy, and to afford a neutral ground for the exchange of views, reading of papers and discussions between all pharmacists of the country, free from the influence of "professional politics," in distinction to the two existing professional associations, one including the owners and the other the non-owners, both of which are frankly "party" organisations. Considerable interest is being taken in the new Society, which already counts a fairly large membership, while it is confidently hoped that it will justify its founder's aims, and will constitute a link between all Norwegian pharmacists interested in professional progress.

LATVIAN PHARMACOPOEIA.—Some time ago the Latvian pharmaceutical department in the Ministry of the Interior decided that the time has come to prepare a national pharmacopœia, to take the place of the Russian pharmacopœia, which is still the official standard. Recently a pharmacopœia commission, consisting of professors of the university and representatives of the medical and pharmaceutical associations, was appointed and a considerable amount of preparatory work towards the elaboration of the new pharmacopœia was accomplished. To complete this task, the pharmaceutical department submitted a request to the effect that provision should be made in the Budget for an expenditure of 6,000 lats, to which the Government agreed. However, this item was deleted by the Budget Commission of the Latvian Parliament. Now the pharmaceutical department has obtained the permission of the Minister of the Interior to entrust the preparation and publication of the new pharmacopœia, which is urgently required, to a suitable firm or society.

PRICES AND EXCHANGE RATES.—The recent catastrophic fall in the value of the French franc caused a genuine panic among Swiss wholesalers and pharmacists in towns and villages in proximity to the French frontier, due to the fact that the Swiss public, fully cognisant of the wide difference between the protected prices charged for French proprietary preparations in Switzerland, and their actual cost when purchased in France, simply crossed the frontier to buy their requirements in the nearest French pharmacies. The Board of the Swiss Commission for Price Protection of Pharmaceutical Specialities, known as the "Règlementation," immediately drew the attention of its French members to the anomalous situation created by the fall in the rate of exchange of the French franc, whereby, owing to the price protection policy rigidly maintained by the Swiss "Règlementation," the wholesale and retail prices established by French manufacturers of proprietary medicinal preparations for Switzerland were considerably higher than those in force in France. Finally, after prolonged negotiations, in which the Swiss pharmaceutical profession took a very active part, the following agreement was reached:—(1) The French manufacturers agree to reduce their prices for Switzerland according to a fixed scale. (2) Swiss wholesalers and retailers agree to a reduction in the rate of discount and waive all claims for compensation of the financial losses entailed through the devalorisation of their stocks of French proprietary medicines in consequence of the lowered selling prices. (3) These measures, particularly the reduction in the rate of discount on the sale prices, are only of a temporary character, and a return to the original stipulations of the "Règlementation" will be made as soon as conditions permit.

Legal Reports

An Incomplete Label.—At Marylebone Police Court, London, recently, Mr. Charles William Matthews, Ph.C., Fortress Road, N.W., was summoned on a charge of selling oxalic acid in a wrapper not distinctly labelled "poison." P.C. 511 T said that he was called to a house in Kentish Town on April 20, and there saw the dead body of a man. On the table he found a packet, marked "oxalic acid," and bearing the name and address of the defendant. The word "poison" did not appear. Mr. C. H. Kirby, defending, admitted that the packet had been sold without the word "poison" upon it, but suggested that nobody would have been deceived, because the name of the article appeared on the label, which was red. The Magistrate: That is all very well for you and me; it would not deceive us, but it might deceive people in Camden Town. Mr. Kirby replied that the omission was a printer's error, and was unnoticed by Mr. Matthews at the time. He had been in business for forty-two years. A fine of £3 was imposed.

Pharmaceutical Society v. Noble.—At Bloomsbury County Court, London, on June 5, the Pharmaceutical Society of Great Britain brought an action against Mr. William Desmond Noble, Well Street, E., for an alleged infringement of the Pharmacy Act at Southend (*C. & D.*, May 10, p. 649). Mr. H. Glyn-Jones, barrister, prosecuted, and the defendant appeared in person. Mr. Glyn-Jones said that Mr. Noble on the last occasion sent a letter stating that he was not able to attend, as he had to appear before Mr. Justice Swift in chambers. Counsel thought that Mr. Noble should explain how it was that his name did not appear in the list of applications before Mr. Justice Swift. The Judge: I do not think it is necessary. The question can be decided when the costs are considered. Mr. Glyn-Jones said the present action was brought for an alleged infringement of the Pharmacy Act. The defendant, interposing, said he had a preliminary objection to make, as he objected to the case coming before the judge as a fresh action, and be submitted that the plaintiffs were not entitled to adopt that course. The Judge: It was ordered that there should be a new trial in this court. There will be an opportunity of discussing the matter when the costs are considered. The defendant said that the original action should have been proceeded with. Mr. Glyn-Jones: It was for the defendant to take up the office copy of the order and serve it upon the registrar of the Bloomsbury County Court, and that he failed to do. Mr. Noble: I apply to this Court to dismiss this case with costs. Mr. Glyn-Jones said it was not the usual thing for a plaintiff to apply to set down the case in such circumstances. Counsel then proceeded to outline the plaintiffs' case. There had been a number of proceedings, said Mr. Glyn-Jones, and a number of notices had been served by the defendant on the plaintiffs. The defendant proposed to establish that the business belonged to his wife, but counsel hoped to be able to satisfy the judge that it was entirely the defendant's. The first witness called was Thomas William Collier, Southend, who stated that he went to purchase a quantity of spirit of nitre and some Izal. He saw a young man in the shop, and later saw the defendant. In reply to the defendant, the witness said he did not see a lady in the shop, and was quite sure about that. He was supplied with the nitre, and was told he could have the Izal later. Mr. George Waldo, inspector for the Pharmaceutical Society, said he had been making inquiries about the business, and on October 9 he went to the shop immediately after the last witness, who had given him a bottle. He saw the defendant and said he wanted to see what certificate there was there. The defendant replied: "There is no certificate here; this is a drug store only. There are no poisons sold here, and you can search the place if you like." The witness said that "chemist" was over the shop, and the defendant said anyone could use the style of chemist if he liked, even a butcher. The name of William Desmond Noble was not in the current Register, nor was there the name of Elizabeth Dorothea Noble. In reply

to the defendant, the witness said that he had visited the place about four or five times since 1919. Have you ever seen a certificate exhibited?—Yes, once. What was that?—I think Barton was the name. You knew Barton was employed by Mrs. Noble?—No. Mr. John William Barton, a registered chemist, said he was employed at the premises, and was there when the shop front was repainted. He received his instructions from the defendant. The defendant, producing an agreement: In face of the agreement which said that Mrs. Noble was your employer, the only instructions you ever had were from me?—Yes. The defendant contended that there was no case against him, but the judge said that there was a case to answer. The defendant said he was not giving evidence, and added that he was a company director. In 1921 Mrs. Noble took full control of the business, and there was a qualified man in charge. The defendant called Mrs. Noble, who said she had lived at the premises for four years, and a company was formed. The defendant: Have you from time to time employed qualified chemists to manage your business?—I have. The witness said that on October 9 she and her son were in charge of the shop when Collier came into the shop and asked for a bottle of Izal. She immediately said, "We don't sell that." While the nitre was being put into a bottle her husband came into the shop; he wrote the label and handed it to witness to stick on the bottle. The witness added that she had never heard her husband give instructions to Mr. Barton. Demands for rates and a number of invoices were produced, which the defendant said were all made out to Mrs. Noble. Mr. Glyn-Jones asked the witness if her husband was not summoned for selling an article after eight o'clock at night, and whether he said nothing then about the business being his wife's business. The witness: I was sued as well as he. Continuing, Mrs. Noble said she did not know when the business was started, but it was before they were married. Mr. Glyn-Jones having replied on the evidence, the judge reserved his decision.

Pharmaceutical Society of Cape Province

A GENERAL MEETING was held at the Society's headquarters, Capetown, on May 21. There were present, among others: The President (Mr. M. W. Clancy), in the chair, Messrs. Froembling, Hill, Sleggs, Linley, F. Mathew, Asher, Dell, and the secretary (Mr. Buxton). The minutes of the previous meeting having been passed, the Society's delegates to the recent Pharmaceutical Conference (Messrs. F. Mathew, Linley, and Asher) gave an account of the proceedings. A letter from the secretary of the Colonial Pharmacy Board was read, asking for the co-operation of the Society in bringing to book any persons making false declarations in connection with applications made by prospective candidates for the Qualifying examination. It was agreed to support the request. The secretary said he had been approached by representatives of the Technical Institute with a view to getting the opinion of the Society on the advisability or otherwise of the Institute starting a pharmacy course for the Qualifying examination. There was a long discussion, and the feeling of the meeting was that, in view of the fact that the Society has its own school, and facilities are also offered by the Capetown University, the small number of students available would not justify the outlay involved. The secretary was requested to communicate with the Technical Institute officials to this effect.

A NEW PINETUM.—The "Kew Bulletin" announces the acquirement of a site at Bedgebury, Kent, for the cultivation of a national collection of conifers. It is stated that, although Kew Gardens can claim an extensive collection of such trees in "presentable" condition, "it has been impossible for several decades past to show at Kew creditable examples of most of the spruces and firs. . . ." A first consignment of over 300 plants has been sent to the new area.

New Companies and Company News

P.C. means Private Company and **R.O.** Registered Office.

LONDON CHEMICAL Co., LTD. (P.C.).—Capital £5,000. Objects: To carry on the business of manufacturing chemists and druggists, drysalters, etc. The directors are: G. Thompson and A. N. Stockdale. Solicitor: F. H. Stollard, 56 Gresham Street, London, E.C.

FIRST-AID SUPPLY Co., LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers and suppliers of and dealers in first-aid requisites, druggists' sundries, dealers in and suppliers of patent medicines, surgical instrument manufacturers, etc. R.O.: 113 Newington Causeway, London, S.E.1.

FUMIGATORS' CHEMICALS, LTD. (P.C.).—Capital £15,000. Objects: To carry on the business of manufacturers, refiners, producers, importers and exporters of, miners for and dealers in hydrocyanic acid, cyanamid, cyanide, and other chemicals and chemical products, miners, electrical and other power producers, fuel manufacturers, oil refiners, distillers and manufacturers, etc. The directors are: N. W. Buch, A. G. Allen and W. B. Bell. R.O.: 232 Salisbury House, London, E.C.2.

DRY ROT AND FIRE PREVENTION Co., LTD. (P.C.).—Capital £100. Objects: To undertake the manufacture and sale of a dry rot and fire prevention solution in respect of which an application for a grant of letters patent was lodged on February 16, 1924, and to carry on the business of general and manufacturing chemists, manufacturers of and dealers in medicines and medical preparations, and metallurgical and analytical chemists, etc. The directors are: W. H. Webber, F. S. Brightmore, and A. G. Bates. R.O.: 33 Farnival Street, Holborn, London, E.C.4.

HEYERDAHL PRODUCTS Co. (ENGLAND), LTD. (P.C.).—Capital £1,000. Objects: To acquire all the patents of P. M. Heyerdahl, of Høydahl Ohmes Villa, Bestum, near Kristiania, Norway, and to carry on business as manufacturers, refiners, shippers and blenders of cod-liver oil or any other oil, and manufacturers of any foodstuffs or articles in which such oils can be incorporated, etc. The directors are: P. M. Heyerdahl, Høydahl Ohmes Villa, Bestum, near Kristiania; J. L. Jarvis, C. G. M. Hatfield, and F. C. Russell. R.O.: 36 Regent Street, Cambridge.

LUTHER BYE, LTD. (P.C.).—Capital £1,400. Objects: To take over the business of a chemist and druggist formerly carried on by the late W. L. J. Bye at 23 Quay Street, Ammanford, Carmarthen, and to adopt an agreement with Emily E. Bye to carry on the said business and that of retailers of wines and sweets (to be consumed off the premises) at the above address; to take transfers of the existing justices' licences authorising an excise licence to sell wines by retail at the said address for consumption off the premises, etc. The directors are: J. Jones and D. I. Rees. R.O.: 23 Quay Street, Ammanford, Carmarthen.

BRITISH WOLMUTH "SANAWAVES" Co., LTD. (P.C.).—Capital £5,500. Objects: To adopt an agreement with G. Wolmuth & Co., A.G., and Alfred Hurter, providing for the acquisition by the company of an agency for the sale of the apparatus known as "Sanawaves," together with the benefit of the trade mark No. 437,838 in Class 11, and to carry on the business of manufacturers of and dealers in galvanic, electrical, chemical, anatomical, surgical and scientific apparatus and materials, manufacturers of and dealers in medicines and preparations, chemists, etc. The directors are: A. Fischer, A. Hurter and H. R. Summers. R.O.: 27 Soho Square, London, W.1.

LONDON HYGIENIC CHEMICAL Co. (1922), LTD.—At a meeting held in London, on May 16, it was resolved that this company be wound up voluntarily. Mr. E. C. Gardner, 6 Cuimnor Road, Sutton, was appointed liquidator.

W. J. BUSH & Co., LTD.—The net profit for 1923 was £48,109, plus £18,197 brought forward. The directors recommend a final dividend of 7 per cent. on ordinary shares, making 10 per cent. for the year, carrying forward £35,056.

A. J. WHITE, LTD.—The report of the directors for the year ended March 31, 1924, shows a net profit of £26,649 16s. 4d. After bringing forward £52,043 12s. 8d. from last year, and adding the foregoing profit, there remains a balance of £78,693 9s., out of which is recommended the payment of a final dividend of 5 per cent. (making $7\frac{1}{2}$ per cent. for the year), leaving a balance of £56,193 9s. to be carried forward to next year's accounts.

VIKING RENNET Co., LTD.—The creditors of this company met in London on June 4, when Mr. O. Sunderland was elected to the chair. The company's accountants submitted a statement of affairs, which showed ranking liabilities £4,351 10s. 2d., and assets estimated to realise £432 12s. 7d. It was reported that the company was formed in 1907 as the Viking Chemical Co., Ltd., with a capital of £1,207, to take over a business which had been established for the manufacture of rennet and the production of colouring matter. The name was changed in April 1908 to the Viking Rennet Co., Ltd., and the capital was subsequently increased by the issue of 2,609 shares for cash, while 2,100 shares were issued to the directors for services rendered. Between 1914 and 1920 the net profits, after paying income-tax and excess profits duty, was £3,831, of which £2,329 was distributed in dividends. During recent years the turnover had been as follows:—1921, £25,000; 1922, £18,000; and 1923, £15,000. The bad debts last year were £1,300. The book-debts were charged to the Controller of Enemy Debts during 1923. A resolution was passed in favour of voluntary liquidation, with Mr. Sunderland as liquidator.

HEPPELLS, LTD.—At the statutory meeting held on June 5, the chairman (Sir Alan Hutchings, K.B.E.), who presided, said:—We should have preferred this meeting to have taken place after the businesses had been finally taken over, but the valuers not having completed their valuations it was not possible. The valuations have been a lengthy task as they comprise the contents of twelve chemists' shops, together with a manufacturing concern and wholesale warehouse. This work has been pressed forward, and it is anticipated will be finished in about a week, when completion of the purchases can take place, as the estimated necessary financial arrangements have already been made. Your company takes over the business as at February 18 last, free of all outstanding liability, and you take the profits from that date, paying the vendor 5 per cent. interest until completion. Dealing with the receipts, there are sums outstanding in respect of calls, all of which are expected shortly to be discharged, and after completion the amount of working capital, inclusive of stock, remaining in the business is considered ample for our needs in a cash business of this description. I am pleased to be able to inform you that figures supplied from the books show the current rate of profits, subject to audit, to be in excess of that set forth in the prospectus estimate. Sales of the well-known remedy Lamplough's Pyretic Saline show a remarkable increase. This preparation, as you are probably aware, was the original saline. It has a century's successful medical history, and as I believe the public generally favour the original article as being the best, so I am of opinion that there is almost unlimited scope for development in the direction of Lamplough's Saline. The judicious advertising of our other proprietaries, such as Clark's Bath Salts and "Urillac," will, I believe, also considerably enhance our future revenue. Important steps are being taken to further the sales of these and Heppell's preparations generally throughout Europe and the Colonies. The extension of our pharmacies is also under consideration. At the present time every one of our chemists' shops is profitable, and this is not always the case in a multiple concern. In fact, the current rate of profit since February 18 last is (calculated upon an annual scale) more than sufficient to pay the Preference dividend upon the whole issue three times over. A vote of thanks to the Chairman was unanimously adopted.

Pharmaceutical Society of Great Britain

Branch Meetings

London (S.W.).—The annual meeting of the South-West Metropolitan Branch was held at Carpenter's Restaurant, Clapham, on May 30, at which the retiring chairman (Mr. E. Skues) nominated Mr. Gosling as *Chairman*. This was carried unanimously by the meeting. The Committee was then appointed, with power to choose the delegates for the Conference and the branch officers for the year. Dr. Stanley White, of the scientific staff of Parke, Davis & Co., then gave a lecture on *The Ductless Glands*, Mr. Mills (treasurer) acting as lanternist.

Plymouth.—At the annual meeting of the Plymouth Branch, held at the Mikado Café on May 28, Miss Buchanan, member of the Pharmaceutical Council, who was warmly welcomed, gave an outline of the ideal scheme of pharmaceutical education for future students. She urged employers to place the benefits of the various scholarships before their pupils. She thought the founding of the South Western Scholarship was a great idea, which merited their interest and support. She described the method of distribution from the Benevolent Fund of the Society. Members, she said, should adopt the practice of systematic weekly contributions to augment the funds. Appreciation was expressed for the work of the retiring chairman, Mr. B. T. R. Shelton. Officers were then elected as follows: *Chairman*, Mr. A. C. Marrow; *Secretary*, Mr. J. H. Lewis; *Treasurer*, Mr. B. J. Woodrow.

Sheffield.—A meeting of the Council of the Sheffield Branch was held at the Y.M.C.A. on June 5, Mr. H. Antcliffe (chairman) presiding. On the motion of the chairman, Mr. J. P. Norwood, M.B.E., Ph.C. (Wathe-upon-Deane) was unanimously elected *Chairman*. Mr. J. Gilbert Jackson (Sheffield) was elected *Vice-Chairman*, Mr. Bellamy (Barnsley) *Treasurer*, Mr. H. G. Hammond (Sheffield) *Secretary*, and Messrs. Nash & Wright (Barnsley) *Auditors*. The retiring chairman refused to accept office again, feeling that the honours should go round. The Barnsley technical authorities have selected Mr. H. Wilson-Spooner, with Mr. Billington (Barnsley), having secured the highest marks, as the student for the branch's prize. The Sheffield result will be announced later. The meeting decided to offer annually, at Sheffield and Barnsley's recognised schools, a prize of books. Mr. Butcher (Parkgate) was appointed a delegate to attend the Bath meeting. The draft articles of agreement for pupils was considered, and a more simple form was thought desirable.

Sunderland.—On June 4 a lecture was given to the Sunderland Branch by Mr. Maurice Share, B.A. (Oxon), LL.B., barrister-at-law, of Newcastle, on *Pharmacy Law*. The lecture was held in the Sunderland Technical College, and was well attended. Mr. Share summarised the laws which affect the pharmacist, and throughout his lecture emphasised the principle running through all pharmaceutical legislation—namely, that these laws had been formed to protect the public. At the close of the lecture a vote of thanks was proposed by Mr. Forster and seconded by Mr. Anderson.

Bankruptcy Reports

Re Percy Gibson, 80 White Abbey Road, Bradford, druggist.—The first meeting of the creditors of this debtor was held on June 6 at Bradford. According to the statement of affairs there were gross liabilities £225, with deficiency £181. The matter was left in the hands of the official receiver.

THE contract for the supply of quinine bihydrochloride tablets to Sierra Leone to the order of the Crown Agents for the Colonies has been granted to Arthur H. Cox & Co., Ltd., manufacturing chemists, Brighton.

Association Affairs

Edinburgh.—The Edinburgh Chemists, Assistants and Apprentices' Association held the first botanical excursion of the summer session on June 4, proceeding by train from Caledonian Station to Cramond, when a large company under the leadership of Mr. Eric Knott, Ph.C., vice-president, turned out. Much excellent field work was done. Good specimens of the so-called "marble" or "Devonshire wood galls," produced by the gall-fly, *Cynips Kollari*, were found on the oak, *Quercus Robur*. Among other plants collected were *Capsella bursa-pastoris*, *Lychnis diaica*, *Acer pseudo-platanus*, showing samara, *Ulex Europaeus*, *Cytisus scoparius*, *Rubus idaeus*, *Geum urbanum*, *G. rivale*, *Fragaria vesca*, *Potentilla*, *anserina*, *Myrrhis odorata*, *Hedera helix*, *Galium aparine*, *Valeriana officinalis*.

Glasgow.—The annual general meeting of the Glasgow Pharmacy Club was held at 165 Hill Street, Garnethill, on June 6. Mr. H. P. Arthur (president) occupied the chair. The secretary's report showed the various sections of the Club to be in a flourishing condition. The treasurer (Miss L. Ramsay) submitted the financial statement. The following are the office-bearers for the ensuing year: *Hon. President*, Mr. G. Mackay; *President*, Mr. R. Dickson; *Vice-President*, Mr. W. J. Moffat; *Secretary*, Mr. Jas. McGillivray; *Treasurer*, Miss Bain; *Librarian*, Mr. J. H. Ramsay; *Committee*: Messrs. Ramsay and MacCallum, Messrs. Jas. Dow, P. M. Duff, D. S. Gowans, G. Thomson, and W. Wood Wilson; *Auditors*, Messrs. A. B. Gilmour and Jas. Innes. The following were appointed Trustees of the Building Fund of the Club: Messrs. R. Graham (of T. & H. Smith, Ltd.), O. R. Hatrick (of W. & R. Hatrick & Co.), and Mr. Thos. MacKinnon. Mr. R. Dickson, on taking the chair, in acknowledging the honour bestowed upon him, thanked the retiring office-bearers for their services during the past year. Mr. H. P. Arthur and others replied. The Rambling Section on June 17 proceeds to Campsie Glen.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

SCOTLAND

Ayrshire.—At a meeting of the Insurance Committee, on May 31, the chairman, in reviewing the work of the Committee during the past three years, said, with regard to chemists, in 1921 there were seventy-one chemists under agreement with the Committee. Now there are eighty-three, an increase of twelve. These twelve mean, in most cases, that chemists' businesses have been commenced in places where hitherto there has not been a chemist. The amounts paid to chemists were as follows: In 1921, £4,650; 1922, £4,875; 1923, £5,157. These sums are exclusive of sums paid to doctors in rural areas, who themselves dispense drugs. These payments to doctors ranged from £643 to £801 during the three years. While the number of complaints against doctors was negligible, so far as chemists are concerned there has not been a single complaint, either during the last three years or at any time since the Committee came into being. People say that "insurance" medicine is not the same as ordinary medicine, but there has never been any proof offered in support of a complaint; as a matter of fact, insured persons are getting medicines which they could never afford to pay for as private patients, insulin for the treatment of diabetes for example.

Perth.—The members of the newly constituted County and Burgh of Perth Pharmaceutical Committees respectively are as follows:—County: Messrs. J. J. Forbes, (Chairman); T. Harley, 29 High Street (Secretary); N. M. Lindsay, J. B. McDonald, J. D. Petrie, J. S. Stewart, W. Watts. Burgh: Messrs. J. J. Forbes (Chairman); T. Harley (Secretary); W. D. Brunton, J. Brydon, J. B. McDonald.

Cinchona and its Alkaloids

SIR DAVID PRAIN, who was formerly a director of the Royal Botanic Garden, Kew, and superintendent of the Royal Botanic Garden, Calcutta, gave a lecture, under the auspices of the Chadwick Trustees, at the Chelsea Physic Garden on June 4 on the economic and hygienic relationship of cinchona bark and its alkaloids. After reciting the well-known facts concerning the origin of cinchona, Sir David said the exploitation of forest products in South America led to an increase in price, to contraction in supplies, and to a search for substitutes. After 1753 the red bark of *C. succirubra*, from Chimborazo in Northern Ecuador, competed with the pale bark of *C. officinalis* from Loxa, which its exporters now termed crown bark. Europe thought red bark, although cheaper, as useful as crown; red became, and still remains, the only cinchona bark recognised as official. Trade substitution did not end here; the grey barks of *C. micrantha* and *C. nitida* from Huanuco in Central Peru competed with red. Later the yellow bark of *C. calisaya* from Bolivia competed with grey, and after the yellow became scarce the Colombian bark of *C. lancifolia* was exported. As this was the last bark of importance to pharmacy that the rain forests of the Andes could supply. Europe undertook the cultivation of cinchona. Conversion of forest products into crops is subject to limiting factors. When labour is unprocureable, the crop must go where labour exists. France tried cinchona in Algeria in 1849; Holland did so in Java in 1851; England followed in Ceylon, the Nilgris, and the Eastern Himalaya in 1861. After labour comes environment. The soil and climate of Algeria did not suit cinchona; those of Java proved satisfactory. Ceylon and South India provided a suitable climate but a less satisfactory soil.

ALKALOID CONTENT OF BARKS

After environment comes adaptability. Colombian bark does not thrive well, even in Java. Red bark and grey prove accommodating, even in the Himalaya. Yellow bark can be raised in the Eastern Himalaya, but not in South India. There are limiting factors connected with utilisation as well as with production. Among the forty cinchonas of the Andes, only six have proved of importance to pharmacy, because of the alkaloid content of their barks. Even in these important barks the alkaloid content may vary naturally: 3 per cent. means a poor, 6 per cent. a good, 9 per cent. or over, a rich sample. Under cultivation, environment may induce further variation; barks "rich" in Java may be only "good" in South India or the Himalaya. This alkaloid-content factor has not inhibited the cultivation of any kind of cinchona; it has, however, rendered the careful selection of strains essential. The equally careful selection of kinds that, under existing conditions, is imperative, depends on the allied factor of alkaloid nature. The alkaloids of cinchona bark may be amorphous or crystallisable. All are remedial against malaria, the physiological action of the amorphous being more rapid than that of the crystallisable, and the efficacy of the crystallisable being accentuated when administered in an uncrystallised state. The chemical relationship of the amorphous to the crystallisable alkaloids is less clear than the inter-relationships of the crystallisable, whose remedial powers are believed to differ.

The crystallisable alkaloids in official cinchona bark were separated collectively for the first time in 1815. In 1820 this collective derivate yielded the specific alkaloid known as quinine; by 1852 it became known that, besides quinine, the "cinchonino" of 1815 includes other alkaloids—cinchonine, cinchonidine, and quinidine. The relative proportions of these alkaloids in particular kinds of cinchona remain unaffected by the variation in their percentages. In any sample of red bark one-half of the alkaloid content is cinchonine, one-third quinine, one-sixteenth cinchonidine, only one-eightieth quinidine; the remainder—about one-eighth—is amorphous. But the relative proportions of these alkaloids differ in different kinds of cinchona bark. In red bark quinine forms but one-third of the alkaloid content; in crown bark it forms three-fourths. In yellow bark the pro-

portion of quinine is higher than in crown; in grey bark that proportion is lower than in red. When quinine was first isolated in 1820 yellow bark was that most used in pharmacy; quinine became, and still remains, the only cinchona alkaloid that is official. Being the official alkaloid, quinine is the one chiefly prescribed and the one chiefly separated from cinchona bark. The manufacturer, when purchasing bark, pays for it in terms of its quinine content; the planter, when establishing a plantation, stocks it with the kind of cinchona his environment will permit to thrive that is richest in quinine. It costs the manufacturer about as much to work up, and it costs the planter about as much to produce, a bark poor from the quinine standpoint, as it does to produce and work up a rich bark. The cinchona planter still grows some red bark because this is still required by pharmacy for official "bark preparations." But the quinine manufacturer no longer purchases red bark or grey, and the planter no longer raises any grey, nor will he grow crown if the environment and adaptability factors do not inhibit cultivation of yellow bark. Such, then, are the economic relationships of cinchona bark and its alkaloids.

These relationships are sometimes misunderstood. It has been said that bark production was abandoned in Ceylon because "cinchona, planted without scientific advice, began to deteriorate." This happened in South India owing to the establishment of a cinchona monopoly by Java. What happened in Ceylon was that, when coffee cultivation came to an end, cinchona cultivation was taken in hand. Ceylon, like South India, had to grow crown bark. When Ceylon began to harvest her cinchona the prices received were lower than the prices paid to Java for yellow bark. Ceylon, without hesitation, gave up cinchona and cultivated tea. The same economic factor has led to the abandonment of cinchona cultivation by private enterprise in South India.

THE SO-CALLED CINCHONA MONOPOLY

in Java is no more than a quinine monopoly. That monopoly is not the creation of Java; it is a consequence of the fact that yellow bark, which does not thrive in South India, grows better in Java than in any area, outside Bolivia, where it has been tried. The preference of the planter everywhere for yellow bark is a result of the fact that the quinine-maker pays a better price for that bark. The action of the quinine-maker is itself a result of the accident that the hygienic relationships of quinine differ from those of the other alkaloids of cinchona bark. These hygienic relationships themselves appear at times to be misunderstood. Quinine may be the most valuable of the crystallisable alkaloids of cinchona bark; it certainly is not more valuable than the amorphous. Were this appreciated we might be spared complaints as to the world shortage of quinine. The manufacturer, who ought to know, seems to think these complaints exaggerated. Meanwhile the Java planter is less than content with the price he receives for his bark and explains that he cannot market all that he grows. This suggests over-production rather than shortage. Java, so far from establishing a monopoly, must have lost control of the bark market. One consequence of this particular misunderstanding has been that the British Empire is unable to produce all the cinchona and its alkaloids that they require. Medicine therefore urges the State to extend the cultivation of cinchona, within the Empire, wherever it can be grown. The appeal of medicine might carry greater weight if fuller account were taken of the effect on the economic relationships of cinchona of its hygienic relationships for which she is ultimately responsible. Medicine has not overlooked this entirely; she regards all the alkaloids of one kind of cinchona as worthy of use, so long as they remain unseparated from the bark. It is only after the alkaloids have been extracted from their bark that medicine feels constrained to regard all but one of them as unimportant. If medicine can see her way to some modification of her present attitude conditions that hamper State action and distress us all might disappear; full advantage could then be taken of cinchona and its alkaloids.

Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students," *The Chemist & Druggist*, 42 Cannon St., London, E.C.4."

Report on the May Analytical Exercise

THE powder distributed to students on May 13 contained one part by weight of magnesium hydroxycarbonate, one part of potassium chlorate, and eight parts of sodium chloride. The calculated composition of such a mixture is:—

Mg	...	2.5	Cl	...	48.5
K	...	3.2	OH	...	0.9
Na	...	31.5	H ₂ O	...	1.9
CO ₂	...	4.7			
ClO ₃	...	6.8			100.0

Samples of the powder were distributed to thirty-one students, and fourteen reports were sent in for examination. The writers of these reports detected the presence of sodium and of a chloride, but magnesium and potassium were each missed in one instance, while ten students failed to detect the carbonate and four the chlorate. The evolution of water on heating—due partly to the decomposition of the hydroxycarbonate and partly to the expulsion of hygroscopic moisture—was overlooked in nine cases.

Designed primarily as an exercise for junior students, this analysis was not a difficult one. The usual preliminary tests, when applied with care and closely observed, furnished much information, giving indications of the presence of sodium, potassium, and a carbonate, and of the probable presence of a chlorate and a chloride. The fact that the powder dissolved rapidly and completely in dilute hydrochloric acid indicated the absence of various possible constituents which might give rise to complications.

The point which required the most attentive treatment, and which, indeed, constituted the only noteworthy difficulty of the analysis, was the confirmation of the presence of a chlorate. While concentrated sulphuric acid, in the preliminary testing, liberated some chlorine peroxide, this was accompanied by such a large quantity of hydrochloric acid that its identification was at least doubtful, and another test was required. The best mode of handling the matter consisted in precipitating the chloride as silver chloride, by means of excess of silver nitrate in a nitric-acid solution, filtering, adding excess of sodium carbonate to the filtrate, evaporating to dryness, and igniting the residue so as to decompose any chlorate present and obtain chloride in the final residue. This resulting chloride could then be tested for in the usual way, when its detection indicated that a chlorate had been present originally.

PRIZES

The First Prize for the best analysis has been awarded to:—

W. HAROLD RUDD, 17 Pitt Street, Norwich.

The Second Prize has been awarded to:—

T. B. CLARKSON, c/o Boots, Ltd., Melton Mowbray.

First Prize.—Any scientific book that is published at a price not greatly exceeding fifteen shillings may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about seven shillings and sixpence may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher, naming the book or books they select.

MARKS AWARDED FOR ANALYSES

W. H. Rudd (1st Prize)	94	Pyridine	...	81
T. B. Clarkson (2nd Prize)	92	Rea	...	81
Mascott	89	Opiate	...	78
K. T.	85	Elève	...	70
Kruschen	84	Hothersall	...	69
R. F. S.	82	Iraq	...	64
Ether	81	Quercus Robur	...	36

TO CORRESPONDENTS

W. H. RUDD AND OTHERS.—As the sulphuric-acid radical was present only in small proportion as impurity, the reaction with barium chloride was likely to be observable only after some time.

T. B. CLARKSON.—In testing for traces of iron by means of potassium ferrocyanide in an acid solution, do not boil the mixture, since this reagent is not unattacked, on boiling with hydrochloric acid, even when the latter is dilute. Further, a freshly prepared solution of the ferrocyanide should always be employed when the presence or absence of traces of iron is in question, because dilute acids, even in the cold, usually produce a greenish coloration in an old solution.

MASCOTT.—The powder did not contain strontium, and it is difficult to suggest any explanation for the reactions which led you to conclude that some was present as impurity.

K. T.—Note that ferric chloride does not produce a red precipitate, but only a red coloration, due to ferric acetate, when added to a neutral solution of an acetate. When the mixture is boiled, however, a brown precipitate of basic ferric acetate separates.

KRUSCHEN.—The portion of the powder insoluble in water consisted of magnesium hydroxy-carbonate, and when this was heated water vapour and carbon dioxide were the volatile products.

R. F. S.—The powder did not contain any constituent which would yield a precipitate with hydrogen sulphide. The precipitate obtained in testing for a phosphate with ammonium molybdate was probably molybdic anhydride—a pale-yellow substance which may be precipitated from an unsuitable solution of ammonium molybdate when heated.

REA.—It seems remarkable that you should have failed to obtain any evidence of the presence of a carbonate, seeing that you prepared elaborately for detecting any carbon dioxide that might be evolved on treating the powder with hydrochloric acid. The conversion of chlorate into chloride is a process of reduction—not one of oxidation. It was doubtless by inadvertence that you mentioned testing for a nitrate, by means of ferrous sulphate and sulphuric acid, in a solution which you had acidified with nitric acid.

OPIATE.—See the first sentences of the reply immediately preceding. The powder did not contain an acetate, and the odour you supposed to be due to ethyl acetate was, no doubt, that of ethyl alcohol.

ELÈVE.—The distinct yellow colour assumed by concentrated sulphuric acid when poured upon the powder was highly suggestive of the presence of a chlorate, and would not be accounted for by the decomposition of a hypochlorite. The latter would yield chlorine, whereas a chlorate yields chlorine peroxide.

HOTHERSALL.—The precipitate which you supposed to be aluminium hydroxide was most likely magnesium hydroxide, produced in absence of a sufficiency of ammonium chloride. A very careful test for an ammonium compound failed to furnish any indication of its presence. The name of the introducer of the sodium bismuth thiosulphate test for potassium is Carnot.

Iraq.—In the absence of the usual particulars (the envelope furnishing these having apparently become detached from your report before reaching its destination), your former *nom de plume* has been employed. Read the remarks regarding ammonium in the reply immediately preceding.

QUERCUS ROBUR.—In the testing for acidic radicals you report silver nitrate as yielding a white precipitate of silver chloride in a portion of the sodium-carbonate extract acidified with nitric acid, and as failing to produce a precipitate in another portion of the same extract made neutral with acetic acid. The latter of these is incorrect, as a precipitate of silver chloride would be produced in the neutral solution just as in the nitric-acid solution.

** The exercises in analysis in connection with this column are now discontinued until October.

Pharmaceutical Botany

LXI. Compositæ—Matricaria

This is the last of the natural orders of our syllabus, and appropriately represents our theme of evolution, for in most respects the *Compositæ* represent the highest development of plant types. The order shows evolution in progress in its most active form, viz. :—

(1) The plants in the order are nearly all herbs (*i.e.*, only a few have attained tree forms).

(2) There is often a great variety in a single genus (variation is still taking place).

(3) The success of the order is measurable by the fact that it is found all over the world, in every kind of situation where it is possible for a plant to grow.

It is even possible to denote the feature which has made this order out others in the competition for the available surface of the earth, this being the capitulum—a collection of flowers into a flower-like inflorescence, which, while economising material, makes more certain of pollination than all other flower types. In time it has



FIG. 194.—MATRICARIA CHAMOMILLA.

come to develop these direct. This plasticity of type is the cause of that variation which has led the outside flowers to become large and conspicuous (and often partially or wholly sterile). In the cornflower the tubular shape of the corolla is retained by the bright blue outer flowers, but in *Arnica* and *Matricaria* the corolla of the outer flowers have simulated petals more closely and become strap-shaped (ligulate). Camomile (*Anthemis nobilis*) when wild has "single" flowerheads, but under cultivation all the tubular florets become ligulate and the "flower" (head) becomes "double." In dandelion the double condition has become fixed. The stamens also show transition from simple adhesion without appendages to complete union into a tube with sensitive prolongations of the connective. In the former case the bifid stigma grows (closed up) through this pollen-containing tube pushing out the pollen as it does so ready for a visiting insect. In the latter case an insect touching the sensitive appendages causes the filaments to pull down the whole of the syngenesious

anthers and the pollen is ejected when its carrier from flower to flower is present. Cross-pollination normally

ensues, because the two stigmatic surfaces are only exposed after the style has become well protruded, but arrangements are made to secure self-pollination, and thus affords another chance of setting seed if cross-pollination should fail.

The calyx is degenerate as regards its normal protective functions, which have been taken over by the overlapping bracts known as the involucre. However, it usually develops feathery extensions (known as a pappus) as the seed ripens to act as a parachute (see above).

The *Compositæ* is thus an order readily distinguished by its distinctive inflorescence, consisting entirely of herbaceous annuæ, biennials, or perennials, the last-named usually persisting from year to year by means of tap roots containing inulin. Both roots and stems often have a well-developed system of laticiferous tubes which are continuous, cono-cyclic, and ramify like a fungus. The leaves are often radical, or else alternating, but may be even whorled (*zinnia*), showing how readily leaf arrangement can be changed.

World-wide distribution is fostered by the production of one floating fruit with a single ripe seed per flower, which is easily blown far away from the parent plant. It is worth while noting that it was suggested that the first flower (Fig. 196) originated from a condensed collection of sporophylls, but certainly the composite inflorescence is virtually a single flower through subordination of the individual flower in favour of collective interests. So it would seem that Nature has repeated itself. The capitulum is derived by condensation of

the axis of a spike. That this is the case is shown by the fact that a few genera of the *compositæ* have flowers actually arranged in

spikes. The simplest capitulum has flowers all alike with tubular corolla and five united (syngenesious) stamens surmounting an ovary formed of two carpels (as shown by the bifid stigma), with only one cavity and a single ovule seated on the axis, and not on the carpel itself. The ovule should be on the

carpel, but its natural position is

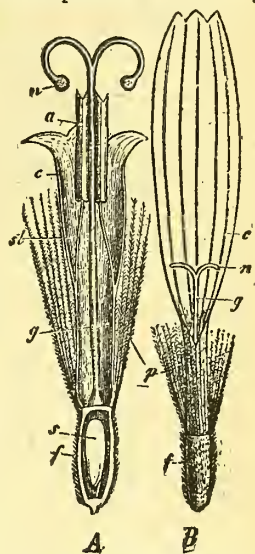


FIG. 195.—COMPOSITE FLOWERS (*Arnica montana*).

A, tubular (disc) floret; B, ligulate (ray) floret; p, pappus; c, corolla; a, anthers; s, style; n, stigma; f, ovary; o, ovule.



FIG. 196.

FLORAL DIAGRAM OF COMPOSITÆ (tubular floret).

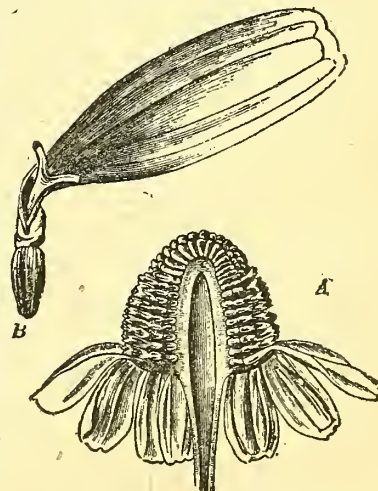


FIG. 197.

FLOWER OF MATRICARIA CHAMOMILLA.

A, flowerhead showing hollow receptacle, with central tubular florets and outer ligulate florets; B, ligulate ray floret.

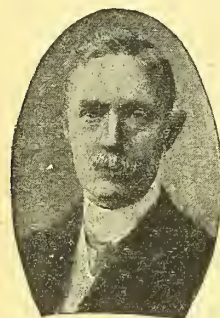
at the head of the axis (see Fig. 195 A and floral diagram, Fig. 196).

The German chamomile (*Matricaria chamomilla*, Linné, Fig. 194), commonly known as the wild chamomile or matricary, is an erect branching annual, 12 to 18 inches high, common in fields and waste places throughout Europe and Northern Asia generally, flowering freely from June until the end of the season. The leaves are much divided, being twice or thrice pinnate, the ultimate segments being very narrow (or linear). The flower heads are "single," with involucre bracts nearly all the same length, having thin (scarious) edges. The receptacle elongates as the flowering advances, so that it becomes hollow. It is also devoid of floral bracts or naked, which distinguishes it from one devoid of scales or floral bracts and hollow, the true chamomile and the fetid chamomile. The latter closely resembles matricary, but has glandular leaves which smell disagreeably on rubbing. The large ray florets of matricary (Fig. 197 B) have a white ligulate corolla but no stamens. The central tubular flowers are small and yellowish but perfect, as they possess stamens as well as carpels. The fruit is without pappus. The wild chamomile contains about 0.25 per cent. of volatile oil. It is rarely used in this country for the same purpose as the official chamomile from *Anthemis nobilis*.

Festivities

A Jubilee Celebration

On June 9 and 10 was celebrated the jubilee of the association of Mr. W. H. Saunders, F.C.S., F.R.G.S., with the business of Ayrton, Saunders & Co., Ltd., manufacturing chemists, Liverpool. The history of the firm and of its conversion into a limited company were fully related in our special issue of 1920 (*C. & D.*, I, 1920, p. 876); it suffices to remind our readers that the late Dr. Ayrton and the late Mr. A. H. Saunders established it in 1868, and that its record has been one of continued expansion. The proceedings of June 9 took the form of a dinner given by the outside staff at the Exchange Station Hotel, with Mr. A. H. Jones as chairman. The party numbered fifty-six, and the function was felt to be a very successful prelude to the larger celebration.



MR. W. H. SAUNDERS

On the following evening Mr. Saunders (chairman of the board of directors), accompanied by Mrs. Saunders, was honoured at St. George's Hall with a presentation by his co-directors and staffs. He received a wireless set and a richly-bound copy of his own revised "Rambling the World," while to Mrs. Saunders was presented a gold-mounted dressing case. Before this item in the programme was reached, the whole company, who numbered over 500, was entertained in the great hall. An adjournment followed to the concert room for the presentation and a musical entertainment, and finally a return was made to the large hall for dancing. Mr. Harold Nixon (deputy-chairman), who presided at the ceremony of presentation, announced congratulatory telegrams and letters from many quarters, and said he learned that during the half-holiday scores more had come to hand. Among those on the platform was Alderman Rymer (Wallasey), who had carried by motor during the last few years for Ayrton, Saunders & Co., goods to the value of £1,500,000, the damages and losses being covered by a £5 note. Mr. David Murray (general manager), in making the presentations, said that Mr. Saunders was well known as a public man in Liverpool, where he had just held four presidencies or chairmanships. He was also known throughout Europe, the British Colonies, the United States, and in the farthest East, having travelled in every European country and in the United States and Canada before his recent tour of

the world. The long service of Mr. Saunders was a record of which any firm or company might well be proud. (Applause.) No firm could have had a more loyal staff. Mentally, Mr. Saunders had always been as big as the business was or would be. The wireless set would cause Mr. Saunders only one disappointment. He would not be able to receive orders through it and broadcast the goods by return. (Much laughter.) Mr. A. H. Jones (senior representative) supported the tribute. When he joined the firm, the travellers numbered five, as compared with thirty to-day, and the large indoor staff had been multiplied as rapidly. By his keen business ability, tact and kindness, Mr. Saunders had got the best out of every one who worked for the company. (Applause.) He had gone through deep sorrow, but sorrow had not hardened his heart. In response, Mr. Saunders said he was absolutely convinced that, with such a deputy-chairman and board of directors and such staffs, the business had not by any means reached its full height. In years to come, it would continue to grow until the products of Ayrton, Saunders & Co. were known all over the face of the globe. He thanked the subscribers for their most acceptable gifts, but infinitely more for the affection and esteem indicated by their presence and enthusiastic reception. His thanks were deeper than he could find words to express. (Loud applause.) Mrs. Saunders gracefully expressed thanks for the dressing case. Her husband had declared that his business was his only hobby, but he would have a hobby in the wireless set. Mr. E. S. Bird took charge of the musical entertainment, which demonstrated the talents of the younger members of the staffs. Mr. A. Chapman marshalled the company to and from the great hall, where dancing was enjoyed until a late hour.

Presentation to Cardiff Chemist

At a complimentary dinner given to Mr. Jabez A. Jones, on June 4, at Barry's Hotel, the members of the Cardiff Pharmacists' Association presented him, as one of their oldest members, with a handsome silver salver. The President (Mr. S. W. Hague) occupied the chair. After an excellent dinner, the President proposed the toast of "The Guest of the Evening," referring to the long-continued membership and interest that Mr. Jones had maintained in the Association since its formation some twenty years ago. Mr. Leo Joseph, J.P., chairman of the Royal Infirmary finance committee, spoke of the valuable work of Mr. Jones while acting on the dispensary committee. Messrs. A. Hagon, J. Reynolds (Mountain Ash), J. Lee Jones, R. Goundry, and G. Fox spoke in felicitous terms of Mr. Jones as a pharmacist-employer, the latter three being old apprentices of his. At the conclusion of the speeches the President presented to Mr. Jones the salver, which bore the following inscription:—

"Presented by members of the Cardiff Pharmaceutical Association to Jabez A. Jones, Esq., as a token of esteem and recognition of his valuable services, as a Founder, Past-President and constant supporter of the Association during the last twenty-three years.—June 4, 1924."

Mr. Jones, in replying, dealt with the phases through which pharmacy in Cardiff had passed during his business life of thirty-seven years. He also spoke of his work as a city councillor, and concluded by exhorting the younger members of the Association to pull together and, when opportunity came along, to take their place in the front rank of their organisation. At intervals during the speeches songs and musical items were rendered by Messrs. S. W. Hague, P. Williams, S. Taylor (humorist), while Mr. Hutchins presided at the piano.

[A biographical sketch of Mr. Jones, with portrait, appears on p. 831.]

NEWSPAPER FOR CO-OPERATIVE SOCIETIES.—At the annual conference of co-operative societies, opened at Nottingham on June 9, a proposal was carried for the establishment of a daily newspaper, owned and controlled solely by the associated co-operative bodies.

Personalities

MR. L. GILDESGAME, managing director of the Eastern and Russian Trading Co., Ltd., is at present visiting the Continent, but will be back in London by the end of the month.

SIR ROBERT WALDEN, retired chemist and druggist, has been elected chairman of the bench of magistrates for the Hanover Square division of the county of London. Sir Robert, who has been a magistrate for the past sixteen years, was Mayor of Westminster in 1908-09.

THE first schedule of the Dentists Act, 1921, provides that two of the members who are to form the new Dental Board shall be elected by registered, as distinguished from qualified, dentists. In a circular addressed to dentists, Mr. Templar Malins, who for ten years carried on business as a chemist and druggist in conjunction with a dental practice, appeals for the votes of all who have been registered under the new Act, remarking that it is expedient to have someone on the Board who will watch their interests.

MR. JABEZ A. JONES, chemist and druggist, who has recently been honoured by the members of the Cardiff

Pharmacists' Association (see p. 830), commenced his pharmaceutical career in the Midlands, serving part of his apprenticeship in Moseley and the remainder in Kidderminster. He passed the Qualifying examination at the age of nineteen, securing first place in honours. Mr. Jones went to Cardiff in 1874 as assistant to the late Mr. Robert Drane, and commenced business in Roath four years later. Entering the City Council in 1897, he was soon appointed to committees, where his special knowledge would be of greatest value; and,

among other interests, he was instrumental in bringing to fruition the scheme for botanical gardens. Mr. Jones was for several years connected with the management of the Royal Infirmary, and for a period was a member of the local Insurance Committee. His leisure is chiefly spent in his garden, in which he takes great pride.

MAJOR J. H. B. WIGGINTON (the Erasmic Co., Ltd.) has joined the board of directors of Joseph Crosfield & Sons, Ltd. Major Wigginton distinguished himself on active service during the South African war and again in the European war, being awarded medals in the former and the Military Cross in the latter. Between those events he managed the drug department of Harrods, Ltd., for ten years, and on his release from the Army he joined the Erasmic Co., Ltd., as managing director. His many friends will wish him continued success in his new sphere.

MR. ROBERT SPENCER DONINGTON, Ph.C. (Donington & Co., wholesale chemists, Spalding), has been appointed a magistrate for the Holland division of Lincolnshire. Mr. Donington, whose father was a chemist at Spalding, served his apprenticeship at Bury St. Edmunds. After gaining experience in Ipswich, London, Bath and Hove, and passing the Major examination, he returned to Spalding in 1895, when he took charge of the wholesale side of his firm's business; the retail branch has since been disposed of. Mr. Donington is secretary to the Pharmaceutical Committee for his area, and a member of the Urban District Council.

Marriages

BURTON-HOOPER.—At St. Thomas's Church, St. Leonards, on May 31, Harry Frederick John Burton, chemist and druggist, to Mary, daughter of the late Mr. Edward Hooper, Liverpool.

Deaths

BEADON.—At Putney, London, S.W., on May 27, Mr. William Wheeler Norman Beadon, chemist and druggist, aged thirty-six.

CAMPSALL.—At Rotherham, on May 24, Mr. Arthur Wright Campsall, chemist and druggist, aged fifty-four.

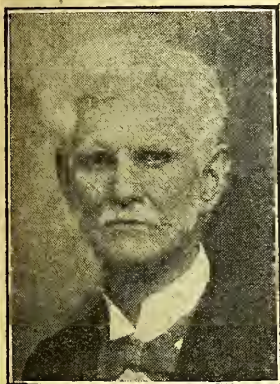
MORGAN.—At Royston, on May 28, Mr. Edwin Abraham Morgan, chemist and druggist, High Street. Mr. Morgan qualified in 1899.

WINDMILL.—Recently, Mr. William Henry Windmill, L.D.S.R.C.S.Irel., chemist and druggist. Mr. Windmill was a dispenser in H.M. Prison Service from 1880 to 1918, and during the latter part of that time was stationed at Wandsworth, London, S.W.

Wills

MR. FREDERICK GEORGE ADAIR ROBERTS, J.P., 68 North Gate, Regent's Park, London, N.W., vice-chairman of Boake, Roberts & Co., Ltd., manufacturing chemists, Stratford, E., who died on February 10, left £110,128 17s. 1d., of which the net personalty is £108,059 17s. 11d. Probate is granted to Mrs. Roberts (the widow), Frederick Morriss Roberts, St. Botolphs, Sevenoaks, and Alfred Berry Weaver, son-in-law, Amersham Hill, High Wycombe. The testator gives £1,000 preference and £10,000 ordinary shares in Boake, Roberts & Co., the cash in hand and at bank and the household effects to his wife; £5,000 shares in Boake, Roberts & Co. and shares in Morland & Impey to his son; £8,000 shares in Boake, Roberts & Co. to his wife for life and then for his son; £2,000 shares in Boake, Roberts & Co. and £1,000 shares in the Manbré Sugar Co. to his daughter Adeline Mary Roberts; £3,400 various shares to his daughter Winifred Adair Roberts; £2,000 shares to his daughter Ethel Adair Impey; £1,500 shares to his daughter Norah Beatrice Lidderdale; £1,000 shares each to his daughters Elsie Naomi Chapman, Muriel May Weaver, Aileen Valerie Adair Hunt, and Marjorie Octavia Adair Fielding; £5,000 shares in the Manbré Sugar Co. to his wife for life, and then as she may appoint to his children; £800 shares to his daughter-in-law Margaret, and the residue of the property to his wife.

MR. JOHN COOKE HEWLETT, F.C.S., Hillside House, Beckenham, manufacturing chemist, of C. J. Hewlett & Son, Ltd., a director of the Northern Counties Conservative Newspaper Co., Ltd., and of the Canada Co., who died on March 28, left estate of the gross value of £144,711 4s. 11d., with net personalty £114,840 4s. 11d. Probate of his will has been granted to his son, Mr. Vivian Charles Hewlett, Ph.C., Mr. Edgar James Millard, Ph.C., of 35-42, Charlotte Street, E.C., and Mr. C. M. Pascall, solicitor. The testator left a life annuity of £52 to his servant Isabella Gordon; £2,200, his consumable stores, horses, carriages, etc., and certain furniture to his wife, stating that she was already otherwise well provided for. He left 16,000 ordinary shares in C. J. Hewlett & Son, Ltd., to his son Vivian; 5,000 such shares upon trust for each of his daughters, Winifred Stock, Gladys Macnab, and Doris Maud, and their respective issue; £1,000 and 4,000 such shares upon trust for each of his daughters Joan Edith and Dorothy Beryl, and £100 to each of them on marriage or attaining majority; £50 to each executor; a life annuity of £300 and the interest in a trust fund of £1,000 to his sister Fanny, and the residue of his property as to one-sixth to his son Vivian, one-sixth upon trust for each of his daughters Winifred, Gladys and Doris, one-sixth upon trust for his grandchildren Audrey and Kenneth Arnott, and one-sixth upon trust for his grandchildren Brenda and Daphne Newton.



MR. JABEZ A. JONES

Chemists' Dental Society

THE 14th annual report of the Chemists' Dental Society to be presented at the annual meeting on June 26 deals with a year in which considerable progress has been made in the consolidation of the dental profession, and the new Association dealing with Insurance benefits is now the largest of all the societies and comprises members of all sections of the profession. The governing body having practically completed the work of registration has been able to devote more time to the important duties, amongst others, of determining the general principles to be laid down with the object of fixing a definite standard of ethics to be observed by all practitioners. It was agreed by the Council of the Chemists' Dental Society some time ago that members should be advised to follow the lead of the qualified practitioners in each district as regards outside signs, etc., and great anxiety has been shown to avoid occasion for offence. The question of titles used by dentists who are also practising pharmacy was raised during the year, and the Council asked for the ruling of the Dental Board upon the matter, pointing out that the initials M.P.S. and Ph.C., etc., are well known to infer a statutory qualification in pharmacy and should not be reasonably calculated to be misunderstood as a dental qualification. The official decision was that it did not appear that the use of any titles permitted by the Pharmacy Acts would be illegal, provided they were not used in such a way as to infringe the provisions of Section 4 of the Dentists Act, 1921. The branch secretaryship for Ireland has now been taken over by Mr. R. Kells, 20 Albertbridge Road, Belfast, in place of Mr. Carse (resigned). As foreshadowed in the last annual report, it has been found necessary, for purposes of administration and discipline, that one Society should control the entire dental profession in all matters regarding Insurance dental benefits. All the Dental Societies have been represented at the negotiations with the Approved Societies, and unanimously accepted an agreement to this effect. Some dentists are objecting to being obliged to join another society with an additional annual subscription, but it must be borne in mind that this is an entirely new departure in dentistry, and as in medicine and pharmacy it is a great advantage for all those undertaking the work to be under the one jurisdiction. The work in future is to be restricted to members of the Public Service Dental Association, and those who have not yet joined are requested to do so at once in order to retain those patients who are insured under the National Health Insurance Acts. Adhesive stamps certifying membership will shortly be supplied, and dentists will be required to affix these to all dental estimates. The scale of charges already in operation still applies, and in order to maintain a high standard of work a specification of the materials to be used has been adopted as follows:—

1.—All filling material to be of first-grade quality, manufactured by the best-known manufacturers and suitable for each individual cavity. 2.—In prosthetic vulcanite work, if pin teeth are used, all pins to be of platinum, nickel or nickel alloy, gold-cased or cased with other precious metal, such as are made by the best-known manufacturers. 3.—If diatorics are used for anterior teeth, they are only to be used in cases where artificial gum is necessary, and the upper anterior teeth must be wired in. 4.—(a) All vulcanite partial cases must be sufficiently rigid. (b) Metal strengtheners must be compatible with vulcanite, and not liable to corrode in the mouth. 5.—All rubbers to be of first-grade quality, manufactured by the best-known manufacturers. 6.—(a) Where gold has to be used for dentures by special estimate, it must not be less than 16 carat, and must be of adequate strength. (b) Bands and wires to be of not less than 16 carat gold, and bands to be of not less than 7 gauge.

As regards Insurance, members of the C.D.S. have a considerable advantage in that they may obtain the cover of £250 against all dental risks included free in the annual subscription of one guinea. The thanks of the Society are due to the treasurer, Mr. J. J. Laws, for again presenting a satisfactory balance-sheet, copy of which is being sent out. The facilities afforded by the pharmaceutical Press in publishing news of interest and importance to chemist dentists is much appreciated by the members.

Trade Notes

IRVING'S YEAST-VITE LABORATORIES, 29 Red Lion Street, Clerkenwell, London, E.C.1, quote letters from trade customers to prove that Yeast-vite tablets are ready sellers.

TECHNICAL CHEMICALS.—William Blythe & Co., Ltd., Church, Lancashire, enumerate some of the chemicals of their manufacture which interest chemists. A list of technical chemicals will be sent on application.

GLASS TUBES of all descriptions and pharmaceutical sundries in glass are advertised by Hudson, Warwick, Ltd., 8 Laurence Pountney Hill, London, E.C.4. The goods are made by A. Sontag, Lichte, Thuringia.

GRANVILLE & Co., 35 New Cavendish Street, London, W.1, call attention in their announcement to a new line, "Couleur de Rose," that is being put on the market. It is used for tinting the skin. Sale terms will be supplied on application.

ESSENTIAL OILS PRICE LIST.—Gerald Bromage & Co., 9 and 10 Foster Lane, London, E.C.2, have issued a new price list of essential oils, aromatic chemicals, and the flower oils and "gomodors" produced by Pierre Dhumez & Co., Vallauris, A-M, France, whom Messrs. Bromage represent. Copies may be had on application.

"OSMO" KAOLIN.—Referring to the note on "Osmo" Kaolin in the *C. & D.*, June 7, p. 798, it should have been stated that the "Osmo" Kaolin referred to is a kind employed for medicinal and surgical purposes. It is this variety for which Allen & Hanbury, Ltd., are the sole distributors in a standard package at a fixed retail price.

CHEMISTS' EXHIBITION.—On another page of this issue will be found an announcement of the Chemists' Exhibition to be held in the Central Hall, Westminster, London, S.W., on June 23-27, inclusive, from 11 a.m. to 8 p.m. daily. Full particulars, with tickets of admission, may be obtained by applying to the Secretary, The British & Colonial Druggist, Ltd., 194-200 Bishopsgate, E.C.2.

EXHIBITION SOUVENIRS.—D. & W. Gibbs, Ltd., City Soap Works, London, E.1, have an announcement regarding the souvenir boxes of Gibbs' preparations which are being distributed at their stand at the British Empire Exhibition. Gibbs' exhibit attracts crowds of people who watch the various operations of preparing and packing dentifrice. The souvenir boxes are now offered for distribution by chemists.

ENGLISH PEPPERMINT OIL.—Mr. Joseph Seymour, essential oil distiller and herb farmer, Holbeach, Lincolnshire, who has been paying one of his customary visits to London, informs us that the prospects of a good yield of peppermint oil in his district are particularly bright, but of course much depends on the amount of sunshine during July and August. Mr. Seymour has about 50 acres of coriander and dill seed under cultivation.

Information Department

INFORMATION WANTED

B/106. Ayro hair brush	G/66. Lothello soil fumigant
B/76. Cherry stones (probably wild) for the treatment of asthma	G/66. Parabolic (British Lysol)
B/106. Corn plane (constructed with cutting edge like a safety razor)	G/56. Petroleum jelly, packed by R.M.S.
M/66. Hamel pattern bottle caps	H/105. Ridge's peptone
B/106. Anthelmintic mixture (Chapman)	H/105. Sirpho-phenol
	W/125. Vermikol (for moths)
	B/126. Warren's (?) "Ever Ready" smelling bottle. ("About the size of a sixpence.")

INFORMATION SUPPLIED

Coty's perfumes. M/315	Meta substitute for spirit. E/295
Du Barry's Revelenta Food. D/245	Muthanol. S/285
Heppell's Insectox. M/315	Promonta Food. C/16
Iodine Medol. T/295	Radine tooth powder. B/275
Kermol. B/275	Vermikol. H/275

Observations and Reflections

By Xrayser II.

The Passing of the Leeds Association

is another step towards the extinction of these time-honoured institutions, and it is not the less to be regretted because the Association virtually invited its own fate. The Pharmaceutical Society's organisation killed it, and the President of the Society hopes to build its tomb. Mr. Sargeant's funeral oration over its obsequies had at least the merit of frankness: the Association, he said, had ceased to function because its duties had been taken from it, and it had been reduced to the undignified position of having nothing to do but to "organise" a few entertainments. It is all true, and the pity is that the case is typical. Perhaps Leeds has been wiser than some other places in recognising the fact that the local association is now superfluous, at least in the estimation of the powers that be, and, like Bradford, committing formal suicide. Really this is but a registering its own death; and, as Browning asks, "When the liquor's out why clink the canikin?"

The President

of the now defunct Association said at its final meeting (*C. & D.*, June 7, p. 808) that there must be, in future, no separation into different units; but surely it is too late in the day to say this if the two organisations, the Pharmaceutical Society and the Retail Pharmacists' Union, were referred to. The most complete mutual goodwill and understanding may exist between them, they may indeed be

Two souls with but a single thought,

Two hearts that beat as one;

but if the word "unit" has not lost its meaning they must be two while they are independent, self-governing bodies, each with its own constitution and functions, and one chartered and one not. And why should not the fact be recognised? I have always regretted the necessity—supposing it to have been a necessity—for this separation of our business from our professional organisation; but, since it is an accomplished fact, it is much the best to accept it frankly. The two bodies will work together, when that is necessary and possible, much more harmoniously if each respects the other's independence and self-sufficiency.

The Enforced Retirement

of Mr. Neathercoat from the presidency will be generally regretted. He has filled the post with dignity and distinction, and has not held it so long as to wear out his welcome, so far as the Society at large is concerned. That he has been rejected by the Council while still willing to stand will, I believe, cause a good deal of surprise among the rank and file. Although he has occasionally been betrayed into utterances that would have been better unsaid, he has usually shown a gift of measured and judicial speech which it is to be hoped his successor will imitate; he never stood higher in the estimation of all concerned (outside of the Council at any rate) than during his last weeks of office, and probably the Council has only put Mr. Sargeant in his place on the ground that these honours should circulate. If so, I venture to say it has been premature. Mr. Rowsell's election as Vice-President is probably for similar reasons, but it is difficult for an outsider to know why Mr. Skinner, who has rendered more unpaid services to the drug trade than any other Councillor, has been passed over.

"Vigilant"

asks too much of the Pharmaceutical Society. After all, the M.P.S. is but a man who can write certain letters after his name; and while it is the fact that the unqualified assistant often in many respects serves his purpose better than the qualified, it is only human of him to be a little indifferent to the claims of the latter. This is one of the penalties of our higher education. Even in my time as an assistant many men

actually preferred an unqualified assistant on the ground that they had found them of more practical use—readier to do the meanest jobs, less apt to give themselves airs, and quite as competent in ordinary routine work. Very few of us have so much call for professional qualification that we need assistance in work requiring it, and there is still a certain suspicion that the "professional" man is apt to be above the work really required of him. The fact is the Society has pushed its educational schemes a little beyond what are felt to be the necessities of the case, and in making the qualification more expensive has done the assistant, *qua* assistant, a dubious service in more ways than one.

The Sermon on the Mount

and the golden rule are, says Lord Leverhulme, the best guides to success in business. I doubt whether he has thought out all the implications of this assertion. To do to others as we would they should do to us is doubtless a sound business proposition, if (that is) we desire from others only what is just and right; but what about the injunction to give our cloak to the man who has stolen our coat? What would Messrs. Selfridge or Harrod, or Lord Leverhulme himself, say to the shoplifter who pleaded this? There are, I venture to say, a good many sayings in the Sermon on the Mount which cannot be fitted into our present competitive, or indeed into any humanly workable system of business, and that were not meant to be. This is the fallacy underlying all such assertions as Lord Leverhulme's. The moral ideas of the Sermon on the Mount are the lights of the Celestial City, which shine upon the road we travel; but they cannot always be taken as rules of the road without danger. The man who puts these precepts into practice—or tries to do so—as helps to success in business acts in direct opposition to their spirit, which is that of pure, disinterested goodness, and is pretty certain to miss his aim.

Farmers

may, as Mr. Kendrick says, be made into very good customers, but I have not found them quite so open to new ideas or so ready to respond to suggestions as he seems to have done. I was once instrumental in getting up some lectures on agricultural chemistry, especially in relation to manures, for their benefit. The first of them was by a man from Downing College, Cambridge, and about half a dozen young farmers came to hear it. When I asked one of the older men why he was not there, he said, "Nay, not me; I've been farming that bit o' land for forty year, and if I can't manage without asking Billy W— to help me I'll gie o'er." (Billy W— had acted as secretary.) Perhaps the school-master has been abroad since then.

"Artifex Pharmaceuticus"

is a good deal more tolerant than Charles Lamb if he really admits all the works he would include in the chemist's library to the rank of books that *are* books, and it is difficult to guess on what grounds he demurs to some of them while admitting others without question. Why, for example, is not the B.P. as much a book in Lamb's sense as Lucas's "Book of Prescriptions" or the "Ilford Manual of Photography"? Not that I have anything to say against either of these, for indeed I know neither of them—as manuals. But *books*? What does Lamb mean by a book? Certainly not one that merely conveys information, but one that gives us something of the author's personality—that is, in Milton's words, "the precious life-blood of a master-spirit"; he means, in short, literature, or, to use the old phrase, *belles lettres*, or what has at least some tincture of "letters." My "chemist's library" is not nearly so useful as a guide to business as your correspondent's, but it does enable me, like Lamb's friend Sarah Battle, "now with God," to "unbend over a book." I can get intimate with Gerard or Culpeper, or their kind, not to mention such men as Robert Burton or Sir Thomas Browne. Our older writers, absurd as they often are, had the art of writing themselves into their books, and they are worth knowing.

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Editorial Articles

Repayment of Duty on Spirits

Two statutory Orders made by the Commissioners of Customs and Excise, under section 4 of the Finance Act, 1918, which have recently been published, will be found to contain provisions of interest to manufacturing chemists and chemists and druggists. These Orders deal with the repayment under the Act of the duty paid on spirits which are used for scientific purposes or for the preparation of articles recognised by the Commissioners as being used for medical purposes. The purport of the Orders heretofore in force will be found in the *C. & D. Diary* for 1923, and we will now merely indicate the substantial changes made by the new Orders. By Regulation 6 of the old Order, where a claim was made for repayment of the duty on spirits used for a medical purpose, it was made a condition of the grant being allowed that the claimant should not have in his possession any spirits recovered in the process of the manufacture of the article

or from the residues left in such process or any spirits mixed with spirits so recovered if upon examination the spirits were found to contain methyl alcohol or methyl compounds. This, it will be observed, made no provision for the case of methylic constituents which might be developed in the process of manufacture, and whose presence was not due to any addition by the manufacturer to the medical article of methyl alcohol or methyl compounds. Under the new Order (Regulation 6) it is provided that the presence of these forbidden substances in the spirits shall not constitute a bar to the claim being allowed if the claimant satisfies the Commissioners of Customs and Excise that the methyl alcohol or methyl compounds have been naturally present in the substances which have been operated upon or have been generated in the course of manufacture, and are not due to the presence of methylated spirits or duty-free methyl alcohol. Regulation 11 of the Scientific Purposes Order and the corresponding Regulation 12 of the Medical Purposes Order relax the rigidity of the provisions of the old Orders, which required that a claim for repayment of the duty should be made in all cases within three months of the date when the spirits were used. In future a claim may be admitted if made within such extended time as the Commissioners may in their sole discretion under special circumstances see fit to allow. The only other provision of the new Orders which calls for notice is that contained in Regulation 13 of the Medical Purposes Order. Under this, claims for repayment of duty may be made as often as twice in each month in respect of spirits used on one set of premises, instead of only once as heretofore. This does not apply to spirits used for scientific purposes. Both Orders expressly rescind the old Orders which they supersede.

The Cancer Problem

THE Ministry of Health is issuing for the use of local authorities a series of memoranda on cancer compiled by a Departmental Committee on Cancer. These are reviews which summarise modern knowledge and practice regarding the cause and treatment of cancer, but it must be confessed that the memoranda only emphasise the fact that very little progress has been made in combating one of the most serious diseases of modern times. The memorandum issued earlier in the year dealt with the effects of radium and x-rays upon normal and cancerous tissues, and was mainly the work of Professor Lazarus-Barlow, of the Cancer Department of the Middlesex Hospital. The facts that emerge are that all varieties of cancer are not equally amenable to irradiation, and that the component rays of x-rays differ in penetrating power, it being common to classify them as soft, medium and hard, the last being the rays with relatively short wave-length and high penetrating power. Radium, which at first was thought to have a similar effect to x-rays, has now assigned to it a different range of suitability, so that it is not unusual to combine x-rays and radium in the treatment of cancer. The radiations were found to ameliorate the pain, diminish the discharge, and control the hæmorrhage, but it was noticed that the response to irradiation lessened on subsequent occasions so that it became usual to administer a full dose in the shortest possible time consistent with the safety and comfort of the patient. The earlier view of x-rays was that they acted as a specialised variety of caustic, then it was thought that the rays had a directly selective action on cancer cells, but that this was barely attainable by reason of the insufficient delicacy of the methods of applying the rays. Lastly, it was considered that the radiations evoke within the patient's body an increased production of some substances antagonistic to cancer which, however, are rarely sufficient to check the cancerous growth. It cannot be said that these conclusions give much hope to the unfortunate sufferers from

cancer. A further memorandum of the series which has been issued relates to cancer of the breast and the results of surgical operation in connection with this condition. The document deals first with operation mortality showing as is natural that modern surgery has advanced upon what it was fifty years ago. Dealing with the normal course of cancer in the breast it is noted that the early stages are painless, and hence the onset of the disease cannot be fixed with any degree of accuracy. The course of the disease varies even in cases which appear to be similar at the commencement, some rapidly becoming acute, and others a chronic course. Early surgical operation is stated to afford the one chance for a patient suffering from cancer of the breast, internal medicines and external applications or special dietary being ineffectual. As is natural, however, the patient is unwilling to submit to operation until pain and ulceration make the seriousness of the position apparent. The success of the operation is thus rendered less certain. The completeness of the operation is a factor now well recognised, and the necessity of removing the outlying portions of the cancer. In regard to the results of surgical treatment, taking the "natural" course of cancer as little more than three years, statistics show that about 50 per cent. of the patients operated upon are alive at the end of three years after the operation, and 33 per cent. survived five years after operation. It is considered that if the operation is performed in the earlier stage of the disease the proportion of survivals is much higher. The conclusion reached in the memorandum is that with early operation there is an average prolongation of life amounting to many years. The memoranda from which we have quoted are Ministry of Health circulars 476 and 496, and are obtainable from the Stationery Office at 1d. each. This week the hopes of cancer sufferers have been raised by the announcement in the daily papers of a reported successful treatment of cancer by Dr. T. J. Glover, of Toronto. The information, which has brought us requests for the source of supply of the serum, is based upon an article in the "North American," stated to have been withheld for fifteen months so that proof could be obtained of the claims made by Dr. Glover. Further reports from Toronto are less favourable to the inventor, who is stated to have been unable to substantiate his claims before a committee of the Toronto Academy of Medicine. The interest which the daily Press takes in reports of cures for cancer is an index of the feeling that with all the money that has been spent upon research it is time that some practical outcome is reached.

The Shellac Market

SINCE we last dealt with the market position of shellac in January there have been occasional periods of generally slack trading. This factor, combined with the existence of heavy warehouse stocks in London, considerably decreased American purchases from Calcutta, and spasms of weakness there, have resulted in renewed downward fluctuations to a level of values approximating the lowest point that was reached in the earlier part of August last year. There has been, however, some improvement lately. The outgoings in the London market so far this year have been fully maintained, as indicated by the returns we give below. In our issue of November 24 last (p. 725) figures were given showing the progressive rate of the London deliveries for several years, although there was a slight setback for the whole of last year as compared with the exceedingly heavy returns for 1922, when the total was as much as 57,225 cases. The spot price of usual TN standard orange quality about a month ago dropped to 255s. per cwt., comparing with over 300s. at the

beginning of the year. The fairly large stocks, coupled with the temporarily decidedly weaker state of the Calcutta market and more pressing c.i.f. offers, obviously checked the spot demand here, and thus influenced holders to make concessions more closely in line with the c.i.f. market. At Calcutta, where quotations had fallen to about 115 rupees when the depression was more particularly marked, there has been a distinct change of feeling for the better in recent weeks, terms having been lifted considerably to well upward of 132 rupees under indications of a more general demand, while a considerable premium is now wanted on forward positions. In this market somewhat erratic fluctuations have been recorded in forward contracts up to over 265s. for August delivery, but spot holders have, nevertheless, shown more confidence, having been less disposed to make concessions in the past week at below 270s., which figure thus denotes a good recovery from the lowest point seen some time ago. Statistical indications are certainly stronger than they were in the earlier part of the year, when the stocks here were well over 15,000 cases. These were reduced last month by 1,192 cases to 13,750 cases, while the deliveries turned out excellent, amounting to 7,165 cases, against which the landings totalled 5,973 cases. Outgoings since have been maintained at a very satisfactory rate despite the holidays, which in view of the virtual absence of fresh landings caused further encroachments to be made on the stocks. Owing to the restricted Calcutta shipments in the last two months or so, the quantities afloat have remained comparatively light, the total shipped for May representing 29,486 cwt., against 35,936 cwt. for the same month last year. The fact has to be noted, however, that the proportion of the American purchases, which for some months previous had been appreciably below the average for last year, has increased again, being well over two-thirds of the aggregate to all ports, whereas the quantities booked for this country have contracted considerably. This reversal in the distribution of shipments from Calcutta would suggest that the American trade demand has again increased, and, furthermore, that additional important withdrawals will become inevitable at this end in the near future. The following figures, giving the landings and deliveries in London for the last four years and for the first five months of this year (with the corresponding returns for 1923), coupled with the monthly average for each period, clearly indicate the progressive rate of the deliveries:—

Cases	1920	1921	1922	1923
London landings ..	47,787	52,463	50,452	67,474
Average per month ..	3,982	4,372	4,204	5,623
London deliveries ..	50,281	53,409	57,225	56,404
Average per month ..	4,190	4,450	4,769	4,700

January to May inclusive	1923	1924
London landings (cases) ..	32,992	24,974
Average per month ..	6,598	4,995
London deliveries ..	26,157	26,561
Average per month ..	5,231	5,312

The exceptionally heavy landings within the past year obviously caused stocks to accumulate to fairly large dimensions, and prices to fall to a considerably lower level in contrast to the much inflated values that were current in previous years. It will be seen that the monthly average of the deliveries for almost every year above mentioned shows an increase, and also for the first five months of the current year. This fact emphasises the progressive outlet for shellac.

Peruvian Monopoly of Narcotics

IN order to exercise an effective control over the importation, exportation, and traffic in "dangerous" drugs, and with a view of combating the illegitimate use of narcotics, the Peruvian government, basing itself on Article 14 of the law enforcing the provisions of the Hague Opium Convention, has declared the importation and exportation of these drugs a state monopoly. A decree to this effect has been signed by the president of the republic, enumerating all the drugs and their various preparations which come within its scope. In addition to opium, morphine, heroin, cocaine, their derivatives and official preparations containing any of these drugs, the Peruvian measure goes beyond the scope of the Hague Convention by assimilating a number of other anæsthetics to the same restrictions; these include, *inter alia*, dionin, Indian hemp, novocain, eucaine, stovaine, and an elastic provision has been inserted extending the monopoly to all substances capable of being used as substitutes for morphine or cocaine. Several proprietary preparations are also mentioned in the presidential decree, the last sentence of which empowers the director of public health to add all preparations, the unrestricted sale of which may, in his opinion, prove prejudicial to the public health. At the same time the government has commissioned the firm of Ph. Ott & Co., Calle Carrera 498, Lima, to purchase abroad, on behalf and for account of the state, the narcotics and pharmaceutical preparations containing the same, enumerated in the decree, and to supply them to physicians, pharmacists and institutions only on presentation of a licence issued by the director of public health. This firm will open a branch in Iquitos, and its sales will be controlled from Lima. It is interesting to note that the Peruvian government refrains from assuming itself the work entailed by introducing a state monopoly in dangerous drugs, and entrusts its practical application to a business house.

French Commercial Advisory Board

A DECREE of May 22 provides for the creation of an advisory commercial and industrial board, to be attached to the French Ministry of Commerce and Industry. The board will consist of one senator, two deputies, the president of the Chamber of Commerce of Paris, five presidents of Chambers of Commerce (appointed by the minister), nineteen representatives of different industries, six members representing various interests, and three leading personalities in commerce or industry, or who are well known writers on economic subjects, the latter will be selected by the minister. The members of this board will be appointed for a period of two years, and its functions will consist in dealing with all questions relating to commerce and industry referred to it by the minister. It is empowered to undertake any necessary inquiries into matters coming within its province. The board will meet at least once every three months, and in the intervals between its official sessions, a commission of eight members will deal with urgent matters.

Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (1s. each including postage) of British patents can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Shaving Soap Powder.—A process for the manufacture of soap for use as a shaving powder, consisting in removing the water present in the soap to below the usual content, and in order further to reduce its swelling properties potassium formate is added. (Dr. T. Legradi. 194,662.)

Ammonium Compounds.—A process for the manufacture of ammonium sulphate, with some ammonium sulphite, for use as a fertiliser, consisting in introducing a current of ammonia and water vapour into a gaseous mixture of sulphur dioxide and air. (J. H. West and A. Jaques. 215,470.)

The Cheddar Gorge and Caves

By R. CECIL OWEN, B.Sc.

This year's Conference excursion, on the afternoon of July 24, has Cheddar for its objective. Mr. Cecil Owen's article is mainly concerned with Cheddar, but a few remarks are appended by him for the guidance of those who make a pilgrimage to Wells and Glastonbury. If it is found practicable, these two places will be included in either the outward or homeward route of the excursion.

THE Mendips run for twenty miles in a south-easterly direction from the Somerset coast, just south of Weston-super-Mare, to the neighbourhood of Shepton Mallet. They form a ridge which rises in few places to a greater height than five hundred feet. On the southern side they



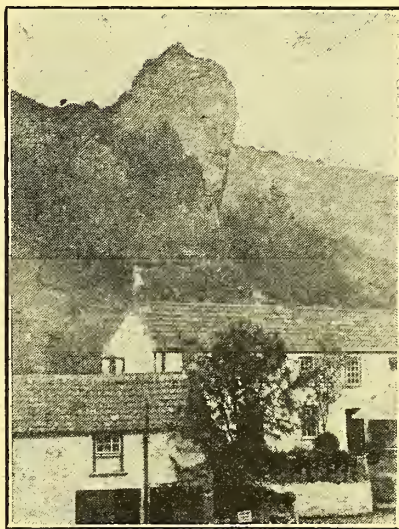
MARKET CROSS, CHEDDAR

are steep and at many points precipitous, while at Cheddar, and occasionally elsewhere, they present a front which is perpendicular, or even, in places, overhanging. To the north, however, they flow down in gradients so gentle as almost to form a tableland. It is to their northern sides, therefore, that the motorist looks for easy transit; but it is to the southern slopes, with their fierce outlines, their enormous rocky walls, their crags, caverns and gorges, that the lover of fine scenery goes. And it is at Cheddar that the cream of Mendip scenery is to be found. The Mendips are made up largely of carboniferous limestone, and to this fact most, if not indeed all, their peculiar and romantic features are due. To the agriculturist they display every shade of economic value. In places there is extreme fertility; at the opposite pole the surface is hard, and devoid of any covering of soil; elsewhere, again, a thin turf offers to a few sheep a meagre sustenance. The district around Cheddar, at the foot of the ridge, is noted for its mild climate and rich soil; here, for example, are produced the earliest strawberries (grown in the open) in all England! The village itself (population, 2,000) has little to detain us beyond the ancient Preaching Cross, around which was built in the sixteenth century a hexagonal Market Cross—the combination of God and Mammon, presenting a somewhat bizarre appearance; the parish church of St. Andrew, in style perpendicular, and in appearance light, graceful and beautifully proportioned, especially as to the lofty tower; and, of course, the celebrated cheeses—which are, however, common to Somerset rather than peculiar to Cheddar. But let us hasten to the Gorge and to the Caves, for it is here that the chief interest, not only of Cheddar, but of the whole Mendip ridge, is concentrated.

CLIFFS AND ROCKS

The Cheddar Gorge is a narrow chasm running in a zigzag course (though in the main at right angles to the general line of the ridge) from the foot of the latter to its table-like top. Through the Gorge runs a winding road of good surface, but of necessarily steep gradient. On either hand tower precipices of stone, several of them rising in a straight line to a height of five hundred feet. Their aspect is both fantastic and forbidding.

Curious and weird shapes are taken by isolated rocks and by the face and summit of the cliffs. Stand well inside the Gorge—say, half-way along its mile-long course—and look back or forward: it is as if one were held prisoner in some robber's cave in a land of giants; the windings of the roadway cut off the vision of the fertile plains below and of the exit at the summit. The brooding sombreness of the scene is accentuated if the sky be overcast and the clouds low; for now the sense of imprisonment is unmistakable, and the pitiless crags frown and threaten as if possessed of sinister personality. Guarding the entrance of the Gorge is the Lion Rock, a high cliff surmounted with a rock, which, seen at a certain angle, reveals the profile of a lion—though the resemblance is not quite so close as is that of the Lion Rock in Dovedale. Nearly opposite, a little nearer to the village, and midway between Cox's and Gough's caverns, is the Pulpit Rock, whose name is self-explanatory. Near the Pulpit Rock is Jacob's Ladder, a stairway of two hundred steps leading to the top of the cliff, whence is to be had a splendid panorama of the district; the exertion entailed in the ascent is well repaid. Notable cliff formations within the Gorge are Sugar Loaf Rock, Monkey Rock (looking like a very small monkey sitting on a very large rock), High Rock, Priest Rock and (perhaps the most magnificent of all) the Castle Rock. Notice, too, the caves that run at intervals into the base of the cliff. One of these, on the right-hand side going inwards near the Sugar Loaf Rock, is called the Spinning Hole; and is of interest inasmuch as, for a long period, it solved for one family the housing problem; a century ago it afforded permanent shelter for a family of twelve! Before and since it has fulfilled similar functions. Only a few out of many of the strange shapes have been mentioned; a great many others will be remarked, and of these but few have so far received official denomination. One pastime for visitors is to pick out unchristened rocks,



THE LION ROCK, CHEDDAR

observe their resemblance to common objects, and provide the missing name! Thus they may (along with the present writer) discover the Bird Rock, King Arthur, the Tooth Rock, the Organ Pipes, and a great many more. How the Gorge was formed is still something of a puzzle to geologists. It was at first believed to be due to volcanic eruption; but the prevailing theory to-day (which harmonises with the marked cave-forming characteristics of the Mendips) is that the Gorge was once an enormous, narrow cave, whose roof finally collapsed. (Such a theory is in accord with that of similar formations in other parts of the country; thus it is generally supposed that certain cliff formations on

the Cornish coast, notably on the Lizard peninsula—e.g., the Devil's Frying Pan and the Lion's Den—were formed by the falling in of the roofs of caves.) In the Gorge there is, or was, a quarry; not only was it unsightly, but its reverberations threatened the security of the cliffs; and it is pleasing to record that, thanks to the activities of the National Trust for the Preservation of Places



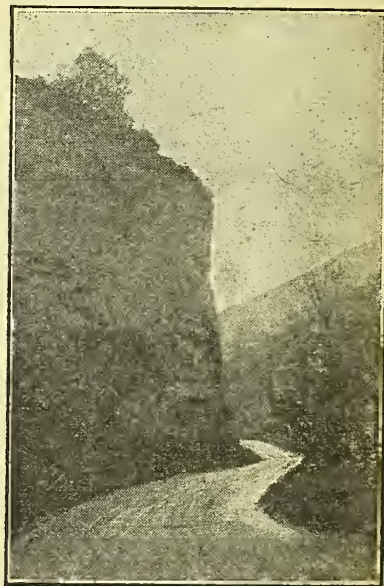
IN CHEDDAR GORGE

of Historic Interest and National Beauty, quarrying operations are not likely to be resumed.

THE CAVERNS

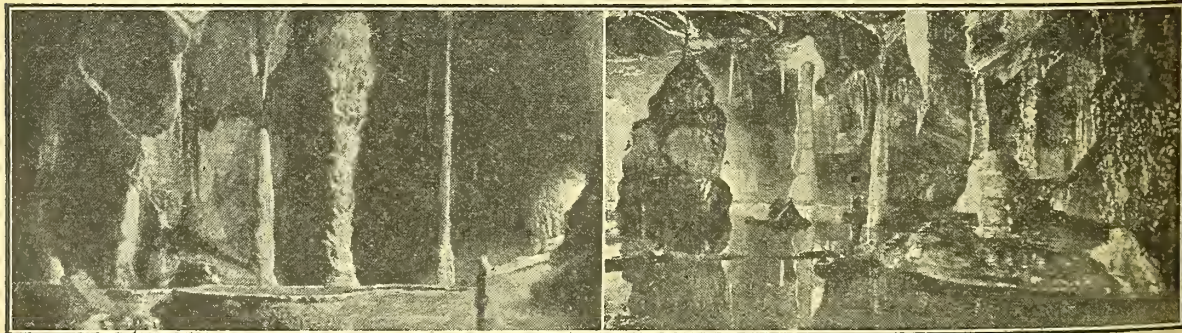
But it is high time we hastened to a still more remarkable feature of Cheddar—indeed, to what are, undoubtedly, one of the wonders of the world—the stalactite caverns. Of these there are two that have so far been discovered, though it is unquestionable that many more, equally wonderful, will one day be disclosed. They are known, from the names of their discoverers or owners, as Cox's and Gough's Caverns respectively, and they lie close together just before the entrance to the Gorge is reached. Each of them forms a network of low passages running into the body of the cliff at the road level, and their title to fame depends upon the amazing splendour and variety of the stalactite and stalagmite formations which they contain. Of the two, Cox's is the smaller, more compact, and daintier. Gough's, the larger, runs into the bowels of the rock for a distance of 480 yards, contains stalactite formations on a grand scale, and has passages beyond those already explored, which continue their inward course for nearly two miles! The caves themselves, like all caverns formed in limestone, are due to the gradual dissolving of the rock in water impregnated with carbonic acid; for it is well known that such a solvent has a marked action upon calcium carbonate or limestone. And when the caves had thus been formed, there began the appearance of the stalactites and stalagmites. Both processes, let the reader be reminded, have occupied periods of time which, however brief they may seem, when judged by the standards of geology, are of enormous duration when compared with the lifetime of an individual. We

must reckon the time taken in tens of thousands of years at least. Stalactites consist of limestone, and in virtue of their peculiar method of formation (to be described in a moment) have assumed a bewildering variety of curious shapes and dazzling colours. Their surface is hard and smooth. As the water (always charged with carbonic-acid gas and containing, therefore, limestone in solution) drips from the roof to the floor of the cave it leaves behind at the points where it falls and alights a minute particle of solid matter. Thus there grows from the roof the hanging stalactite, while from the floor there comes to meet it the uprising stalagmite. It has been computed that a single inch of stalactite (or of stalagmite) occupies in its formation a period of two thousand years! Judge, then, of the deliberation of the making of stalactites fifteen or twenty (or even more) feet in height, such as are to be seen in Gough's Cave! Many of the stalactites are white, indicating a composition of pure calcium carbonate; but the majority are coloured. Every shade of yellow is to be seen, from cream to deep orange; these indicate the presence of iron. Others, again, are green, and betray the presence of copper; others are bluish-grey and contain



A TURN OF THE ROAD, CHEDDAR

tin; while one at least (a rare specimen) in Cox's Cave is of dark purple, and is said to contain manganese. While the majority are in the shape of rods, many other forms (and these, perhaps, the grandest) exist—as when the drip has taken place, not from roof to floor, but along the wall. Thus are formed folded curtains—actually showing blanket-stitching on the edges;



TWO VIEWS IN COX'S CAVE, CHEDDAR

elephants' ears, basket-work, sharks' fins, frozen waterfalls, and the finest formation of all known as Niagara Falls. Other strange shapes (which will be readily noticed) are bunches of carrots, the Welshwoman's hat (of the rare purple colour), the Indian pagoda, the pair of lovers, various statuary groups, organ pipes, human fingers, sea-shells, webbed feet, giant teeth, turkeys hanging head downwards in a very realistic manner, and a hundred others. Here, as in the Gorge, visitors may amuse themselves by allotting appropriate designations to formations hitherto unnamed. Of special interest is the huge formation already referred to known as Niagara Falls in Gough's Cave, as also are King Solomon's Temple, the Fairy Grotto and St. Paul's, all in the same cave and all having self-explanatory names. In Cox's Cave, together with the stalactites already mentioned, special note should be made of a great stalagmite in the form of a red column eight feet in circumference! In both caves the beautiful effect is enhanced manyfold by the presence of pools of clear water; these form mirrors which afford symmetrical patterns most pleasing to the eye.

FOOTLIGHT EFFECTS

As the caves are, *en naturel*, necessarily quite dark, elaborate arrangements are made for the effective lighting of them. In Gough's, electricity is resorted to; in Cox's, acetylene. And the lighting is carried out cunningly. A plan akin to the footlights of the stage is adopted. The actual passages are illuminated only to the extent of permitting visitors to pass along in comfort; the more powerful lamps, backed by efficient reflectors, are made to play upon the various groupings, and the result is both striking and delightful. Of the two caves, Cox's was the first to be discovered—that is to say, in 1837. It stands directly opposite the Cliff Hotel, and in the year named the rock near the mouth of the cave was being excavated to provide room for new stables; a pickaxe slipped into a hole, and investigation revealed the existence of the stalactite cavern. The late Mr. R. C. Gough discovered the cave to which he gave his name in 1877, and new groupings are constantly being brought to light—as when the Fairy Grotto was first opened up in 1913. Of peculiar interest are the remains, the skull and many of the bones, of a prehistoric man, on view inside Gough's Cavern. The great age of the skeleton is attested by its having been found under eighteen inches of stalagmite (and the reader is

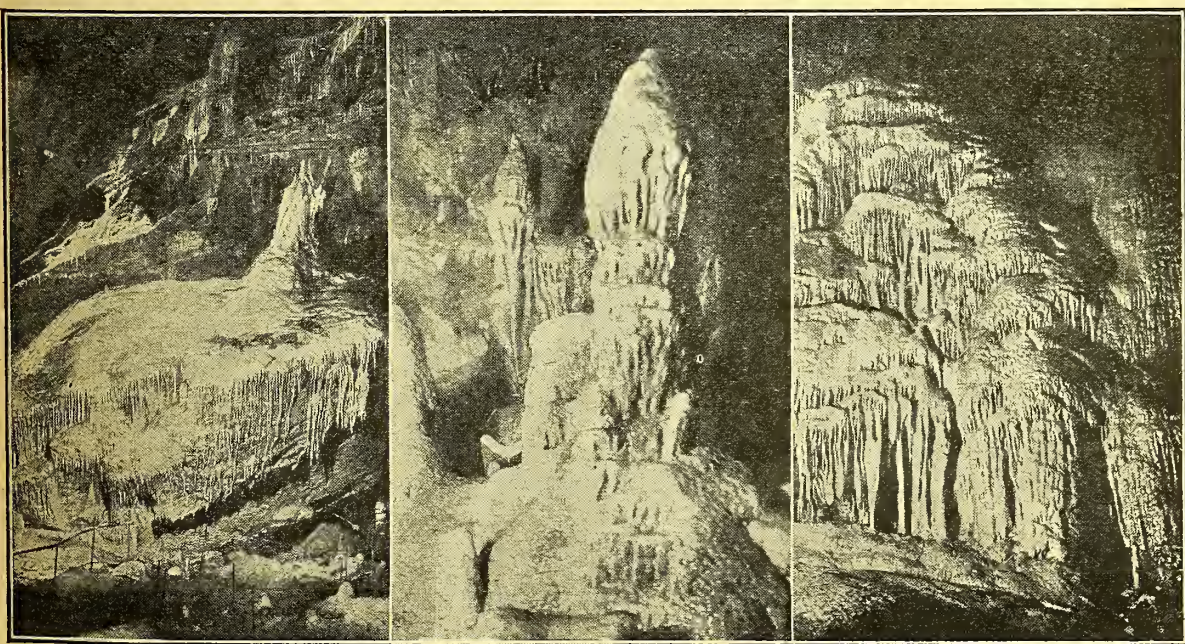
reminded of what was said about their slow formation) and by its being surrounded by palæolithic implements: these two considerations place the age at between 20,000 and 40,000 years, and confirmation is afforded by the shape and comparative measurements of the skull. Observation should be made of the perfect preservation of the flawless teeth. The temperature of the larger cave is worthy of note. Day and night, summer and winter, year by year, the thermometer records no change of temperature; it reads 52° F. invariably!

It is perhaps worth noting that Cheddar has at least one literary association, though not a very brilliant one. I refer to the excellent Hannah More, who shares with Samuel Smiles the distinction of offering a perpetual butt to facile wit. (See, for example, Mr. Birrell's amusing essay in "Men, Women and Books." "I still maintain," he says, "that Hannah More in nineteen volumes is worth eight shillings and sixpence.") A wag once said of an authoress who recently died: "I could not love thee near so well, Loved I not Hannah More!" Rather more than a century ago the well-fed Hannah found the inhabitants of Cheddar not only hungry, but ignorant. Accordingly, she exerted herself commendably, if self-consciously, in the establishment of schools for the lower orders—as she doubtless called them. And although she hectored and patronised and was given to improving the occasion on all possible occasions, it must in fairness be admitted that she did much good in those undemocratic days when, on the whole, to be rich was very good and to be poor was to be damned. Before betaking herself, in something of a huff, to end her days in Clifton, she lived in a "swell place" some twelve miles distant from Cheddar—to wit, Barley Wood, in the neighbourhood of Bristol. Thence she descended, from the heights of pecuniary, intellectual, and spiritual superiority, upon the unresisting peasants of darkest Cheddar.

But we must, albeit reluctantly, tear ourselves away if we are to "do"

WELLS

and Glastonbury, however cursorily, on the present occasion. A few brief notes must suffice. Wells also lies on the southern flank of the Mendips, and eight miles south-east of Cheddar. This old-world city (population 5,000) is full of charm, with its ancient gateways, its street of fourteenth-century houses, its fortified (fifteenth-century) deanery, its bishop's palace built in 1343 for



THREE SCENES IN GOUGH'S CAVE, CHEDDAR

defence and furnished with moat and drawbridge (both perfect even at the present day), and, of course, its exquisite cathedral. Too many of our large cathedrals are hemmed in by mean dwellings, dull streets, and commonplace shops; not so Wells's. Standing on the borders of the little city, it appears to be almost entirely surrounded by green fields, while close at hand rise the slopes of Mendip, which here are tree-clad. Wells is a precious jewel in a rich and worthy setting. Like all our cathedrals (except perhaps two very modern ones), Wells represents a gradual growth extending over many centuries. Exact dates are impossible to give, but the beginning may be placed in the year A.D. 704, though of the actual church then built nothing now remains. But the present cathedral is its immediate descendant, and the work went on till the fifteenth century and, if we include minor additions, later still. For example, the south tower was begun in 1386. The central tower, again—and this is of special interest—was raised to a height of 160 feet in A.D. 1318, whereas previously it reached only to the level of the roof. The additional weight exceeded the carrying capacity of the piers, and signs of settlement were observed. The remedy adopted was the construction of the inverted arches which are so striking a feature of the nave. Other points to be noted are the beautiful octagonal chapter house and the well-worn stairs leading to the same, as well as its peculiar position high above the floor level; the carved capitals in the south transept and nave representing such quaint subjects as a man with the toothache, a woman with a thorn in her foot, the grape-stealers, a woman with a bandaged face, a cobbler, a man carrying a goose—and several more; the "Master Jack" (twenty-four-hour) clock in the north transept, in which each hour is marked by a clockwork tournament; recumbent alabaster effigies in the choir, and elsewhere, of Bishop Jocelin and others; the exquisite Lady chapel; the Bubwith chantry—a chapel on the north side of the nave; the west front with its three hundred carved figures; the crypt, the cloisters and the north porch (transitional Norman). Apart from the Cathedral, Vicar's Close is worthy of close observation, for it is a street of fifteenth-century houses; also the Chain Gate bridging the Bath Road, and the splendid parish church of St. Cuthbert, unfortunate only in being dwarfed by the cathedral. But, in the fashion of the American tourist, we must push on for

GLASTONBURY,

which, though a dull little town, scattered and unlovely, is holy ground to the archaeologist and to the good Churchman. The conical hill surmounted by a tower, visible for so many miles, is Glastonbury Tor, and the tower is what remains of the thirteenth-century church of St. Michael. Tradition, or legend, has it that St. Joseph of Arimathea visited the spot now known as Glastonbury in A.D. 63. The place was then on an island formed by a dividing of the river (much like old Paris), and was known to romance as Avalon. To the north of the town stands a low hill known as Wirrall or Weary-all-Hill, because from its summit Joseph and his followers, all weary from their long journey, looked down upon the plain. Joseph planted his staff upright in the ground, when immediately it blossomed. Hence the origin of the Holy Thorn, cuttings from which are supposed to have generated thorn bushes in a great many parts of the district. One such tree is to be seen to-day, its branches carefully supported on timber, in the grounds of Glastonbury Abbey; a sprig from this bush is on my desk as I write. In the fourth century the early Christians built a little church of osiers here. Then came a stone oratory on the same spot. In the sixth century a monastery was founded; this was destroyed by the Danes, but restored by Dunstan, Abbot of Glastonbury, in A.D. 940. Destruction followed again, this time by fire—i.e., in 1184. Not till the end of the thirteenth century was the restoration complete, and the ruins we see to-day are all that is left of this edifice. The last of the Abbots was Whiting, and he had the misfortune to rule during the reign of Henry VIII. When the dissolution of the monasteries

came about, Whiting buried the sacramental plate and refused to disclose its whereabouts to Henry's officers. For his temerity (he was in his eightieth year) he was brutally put to death on Glastonbury Tor, and his quartered body was sent to various parts of the county. All that remains of the Abbey church are the piers of the central tower, some fragments of the north transept, part of the south wall of the nave, and the wall of the south choir aisle. The Abbot's kitchen still stands, almost intact, and serves to witness that monks were not invariably ascetics. The Pilgrims' Inn must be seen (in High Street), for it is a rare example of fifteenth-century domestic architecture. Its purpose was to afford accommodation for pilgrims squeezed out of the Abbey—a frequent occurrence, for pilgrims were always thick on so sacred a spot. In the Abbey grounds many holy and powerful people were buried—e.g., Gildas the early historian, and the Saxon kings, Edmund the Elder, Edmund Ironside, and Edgar the Peaceable. The monks used to declare that here also lay the remains of King Arthur and his queen, and the two skulls were for centuries on view—to confound unbelievers! They also claimed that here was the last resting-place of St. Joseph. St. Dunstan, and St. Patrick.

It must finally be added that in 1913 a virile operatic society—the Glastonbury Festival School—was formed, and that annually are performed important English works of every musical period, from Purcell to our good friend Mr. Rutland Boughton, whose "Immortal Hour" was rendered but a short while ago.

The photographs illustrating this article were, with the exception of those representing interior views in the Caves, taken specially for THE CHEMIST AND DRUGGIST by Mr. R. Cecil Owen, B.Sc.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Wednesday, June 18

Edinburgh Chemists' Assistants' and Apprentices' Association.—Botanical excursion to Aberlady. Meet at 4.50 p.m., Waterloo Place. Mr. A. Howison, B.Sc., conductor.

Institute of Ophthalmic Opticians, Metropole Hotel, Leeds, at 2.30 p.m. Conference.

Liverpool Chemists' Association and Branch of the Pharmaceutical Society.—Annual picnic. Charabancs leave Woodside Ferry not later than 2 p.m., and proceed via Chester, Aldford, Farndon, Overton, to Ellesmere. High tea at the Bridgewater Hotel at 5 p.m. Tickets (12s. 6d. each) from the secretary, Mr. Hirst, and other members.

Liverpool Pharmacists' Golfing Society, "B. and I." Golf Club, Freshfield. Pears' Challenge Cup. Medal Play.

London Chemists' Inter-Association Sports, Maw's Sports Grounds, New Barnet. Play commences at 3 p.m. On June 19, the final of all competitions will be played. Charabancs leave Lancaster Gate Tube Station for New Barnet at 2 p.m. Tickets (4s. return) by June 14. Trains leave Finsbury Park Station for New Barnet at 2.15 and 2.54 p.m. Note to South-West Association.—Charabancs leave the Plough, Clapham Common, at 1.45 p.m. on June 18. Apply for seats (4s. 6d. each) by June 15.

Newcastle-on-Tyne and Northumberland Branch of the Pharmaceutical Society.—Visit to Allhusen's Works at Gateshead. Meet at St. James' Car Stop on the Heworth Road at 2 p.m.

South-East Pharmacists' Federation.—Combined outing to Battle. Tickets (4s. 6d. each), before June 16, from Mr. D. Marchant, Eastbourne. Tea at Tower's Hotel at 4.30 p.m.

Pharmaceutical Society of Great Britain (North British Branch), 36, York Place, Edinburgh, at 11 a.m. Annual meeting.

Thursday, June 19

Chemical Society, Burlington House, Piccadilly, London, W., at 7.45 p.m. Extraordinary general meeting to precede scientific meeting.

East Anglian Federation of Pharmacists, Victoria Hotel, Kirkley Cliff, Lowestoft, at 4.30 p.m. Quarterly meeting, followed at 6.30 p.m. by dinner, to which ladies are cordially invited. Tickets (5s. each) from Mr. G. C. Jeeves, 1 Tanning Street, Lowestoft, not later than June 14.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, June 12.

BUSINESS in the Mincing Lane produce markets has been on a restricted scale this week owing to the holidays, and the unsettled political outlook on the Continent. Fluctuations in the French franc have been quite erratic, and, in spite of the political crisis in Paris, the rate on the pound sterling has been adverse to this country to the extent of five francs on balance compared with a week ago. The rally is probably not so much a result of the French political developments as of bear operations on the part of speculators in the franc, and the recovery may prove to be short-lived. There are no outstanding features in crude drugs, with a general lack of interest among consumers. Menthol is nominally unaltered, but liquidation from Hamburg is not so persistent. Cascara sagrada shows little movement, the market having been under the influence of the holidays. American peppermint oil, ergot and cod liver oil have an easy undertone. Cassia and Java citronella oils are firm. Spanish spike is easier; good Tonquin musk is in short supply on spot. Among pharmaceutical chemicals business continues limited, and prices of many items are a matter of negotiation. Reports from Germany continue pessimistic in regard to the outlook there, mainly owing to the restriction of credit and the financial chaos. Acetanilide is slightly weaker; amidopyrin is in small supply, and rather higher prices are asked; benzonaphthol is firmer for the same reason. Bromides are irregular; citric acid is in good inquiry at varying prices; phenolphthalein is easier, likewise sodium salicylate. Vanillin is firm. Boric acid has been reduced by £3 per ton. Among industrial chemicals, a number of products show a declining tendency; these include formaldehyde, lead acetate, sodium and potassium prussiates and lithopone. Sal ammoniac and sodium nitrite are firmer.

Firmer	Easier	Lower
Amidopyrin	Acetanilide	Amyl butyrate
Benzonaphthol	Albumin	Boric acid and preservative
Lime oil, hand-pressed (W.I.)	Bois de rose oil	Formaldehyde
Linseed oil	Cocoa butter	Lead acetate
Phenacetin	Hexamethylene	Naphthalene
Sal ammoniac	Linalol	(solvent)
Sodium nitrite	Lithopone	Soya oil (deod.)
Turmeric	Palm oil	Terpineol
	Peppermint oil (Amer.)	Turpentine
Steadier	Phenolphthalein	
Oxalic acid	Pot. pruss.	
	Pyridine	
	Rape oil	
	Soda salicyl.	

Cablegrams

NEW YORK, June 12.—Business is quiet. Peppermint oil in tins has been reduced to \$4.00 per lb., and cascara sagrada to 32c. per lb. Oregon balsam of fir is cheaper at \$1.25, and mercury has declined to \$74.00 per flask. Balsam tolu is higher at \$1.60 per lb.

BERGEN, June 11.—The total catch of cod for the whole of Norway since the opening of the season amounts to 65,300,000, against 48,200,000 for the corresponding week of last year, and the yield of steam-refined medicinal oil is 108,277 hectolitres, against 81,012 hectolitres last year. The quantity of liver for the production of crude oil is now 16,144 hectol., against 16,847 hectol. at the same time last year. Finest new non-freezing medicinal oil is dull at about 90s. per barrel, c.i.f. principal U.K. ports.

Exchange Rates on London

The following is a list of Continental and other exchange rates against the pound sterling on London prevailing at 4 p.m. on Wednesday:—

Place	Method of Quoting	Par of Exchange	June 4	June 11
Amsterdam	Fl. to £	12.107	11.53½—11.54	11.54—11.54½
Berlin	M. to £	20.43	18—18½ billions*	17½—18½ billions*
Brussels	Fr. to £	25.22½	98½—98½	94½—94½
Calcutta	Per rup.	24½	16½d.—16½d.	16½d.—16½d.
Christiania	Kr. to £	18.159	31.80—31.85	31.90—31.93
Constantinople	Pst. to £	110	838—852	830—840
Greece	Dr. to £	25.22½	237—240	252—257
Italy	Lire to £	25.22½	99½—99½	98½—99
Kobe	Per yen	24.58d.	22½d.—22½d.	22½d.—23½d.
Lisbon	Escu.	53½d.	1½d.—1½d.	1½d.—1½d.
Madrid	Pts. to £	25.22½	31.97—32.02	32.03—32.06
Montreal	\$ to £	4.86½	4.38—4.38½	4.38—4.38½
New York	\$ to £	4.86½	4.31½—4.31½	4.31—4.31½
Paris	Fr. to £	25.22½	85.95—86.05	81.30—81.40
Singapore	Per dol.	27½d.	27½d.—28½d.	27½d.—28½d.
Switzerland	Fr. to £	25.22½	24.50—24.53	24.48—24.50
Vienna	Kr. to £	24.02	305,000—308,000	305,000—308,000

* Nominal.

Crude Drugs, etc.

AGAR-AGAR.—The "Kamo Maru" has brought 45 bales to London. No. 1 Kobe strip on the spot is quoted at 5s. 6d. per lb. and at 5s. 1d. c.i.f. afloat.

ALBUMEN is slightly easier, Chinese prime on the spot offering at 4s. 5d. per lb., and June-July shipment at 3s. 6d. c.i.f.

ANNATTO SEED remains quiet, holders asking for 1s. 5d. to 1s. 6d. per lb. for new crop Jamaica or Madras. Although spot supplies are plentiful, it must be borne in mind that no further arrivals can be expected before next February.

ANTIMONY.—A rather firmer feeling has developed again under more restricted offers of Chinese regulus, either on the spot or for shipment, and there seems to be a fair trade demand. English is being steadily wanted in small lots, the current quotations for refined being at around £50, while up to £52 10s. is asked for special brands. Chinese in warehouse is variously quoted from £41 to £42 per ton, while c.i.f. terms for shipment are about £35.

CAMPHOR (REFINED) is quiet, with 2½-lb. Japanese slabs offering at 3s. per lb., and, to arrive, May-June shipment is 2s. 10d. c.i.f. Crude is 2s. 9d. spot, and May-June shipment 2s. 7d. per lb. c.i.f.

CANNABIS INDICA.—Retail sales of Bombay tops have been made at 25s. per lb.; African is quoted at from 3s. 6d. to 3s. 8d. per lb. as to quality.

CASCARA SAGRADA.—The lowest current c.i.f. quotation appears to be 93s. 6d. per cwt. for new crop in not less than five-ton lots. On the spot, ton lots are obtainable at 160s. to 170s. as to seller and age.

CHAMOMILES.—A very fair acreage is said to have been planted in Belgium last year, but the crop largely depends on the weather conditions during July. Spot prices are from 300s. down to 250s. per cwt. There is a speculative offer of new crop at 240s., which is considered too high.

CLOVES.—Zanzibar continue quiet, with spot sellers at 11d. to 11½d. per lb. as to quality. To arrive, there are buyers of April-June shipment at 11d. c.i.f., and October-December is quoted at 8½d. c.i.f. The weekly wharf statistics show that the landings were 200, while the deliveries were 1,208 bales, leaving a stock of 35,922 bales, against 17,090 bales in 1923.

COCOA BUTTER is slightly easier at 1s. 0½d. per lb. for best English makes in lots of not less than one ton.

COD-LIVER OIL.—A fair business is reported by London agents at about 90s. per barrel, c.i.f. London, for finest new Lofoten non-freezing oil.

ERGOT remains quiet, with good Russian offering at 1s. 1d. per lb. on the spot.

INSECT FLOWERS.—Closed Dalmatian offer at 280s., and open at 270s. per cwt., c.i.f. New crop is expected in August-September.

MAGNESIUM.—English makers hold their terms at 3s. 3d. to 4s. per lb., according to quantity, for small

ingots and sticks, but a few second-hand small parcels sold recently at the exceptionally low rate of 2s. 9d. per lb. c.i.f. Powder is quoted from 4s. 6d. to as much as 6s. per lb.

MENTHOL continues quiet at 55s. per lb. for Kobayashi on the spot and second-hand sellers of affloat near at hand quote about 50s. c.i.f. The "Kamo Maru" has arrived with 50 cases of menthol and 145 cases mint oil in transit.

MERCURY.—The position has remained much the same as it was a week ago. There has not been sufficient new inquiry to influence its tendency, but, on the other hand, offers continued restricted to small lots, while sellers are anything but keen, this attitude being due to the belief that an increase of demand will lead to a renewed advance. Italian producers continue very independent, while offers of Spanish are lacking. The current quotation is fully £13 5s. per bottle. Arrivals comprise 11,400 lb. and 15,000 lb. from Hong Kong, but these will not come on the open market.

In reference to the statement in last week's *C. & D.* (p. 812) that "the American production has been increased to 1,200 bottles monthly, representing an increase of 50 per cent.," a London dealer writes us that: "From information received from my own establishment in New York—although the American mines will undoubtedly increase the production as the present price is attractive, considerable time must elapse before any noticeable result is obtained. You state the production has been increased, whereas according to my information it should read 'is likely to be increased.' . . . Regarding the European situation, the following figures may be of interest:

The present stocks at the various mines are 12,500 bottles
The production of June-September of these
mines will amount to

17,800
30,300

"The September production will not be ready for the market until October, so that the above quantities must last the consumption until October. The average consumption is over 8,000 bottles monthly, making a consuming demand for this period of 40,000 bottles.

"The demand has been extremely quiet for the last six to seven weeks, due to the fact that manufacturers are reluctant to stock much material at these high figures, preferring to use almost their last bottle before re-purchasing. As they usually retain about six to eight weeks' supplies in stock, the quiet demand is explained. It is anticipated a new demand will arise almost immediately, and the increased inquiry seems to point to this fact. All producers are maintaining their prices far beyond the present London price.

MUSK.—Tonquin is very difficult to obtain at present owing to the conditions of transport between Chunking and Shanghai. Spot supplies are small, and the value of Pile I natural pod is about 90s. per oz.

PEPPER.—Black Singapore has been quiet but steady, while white Muntok was more active previous to the holiday. Black Singapore closes at 4½d. per lb. spot, and at 4½d. c.i.f. London for June-August and July-September shipments. Lampong and Tellicherry is quoted at 5d. spot, and Alleppy at 4½d. White Muntok is steady at 7½d., having been up to 7½d. in the interval. Sales to arrive include May-July at 7½d., July-September 7½d., August-September 7½d. c.i.f. London.

PLATINUM.—There has not been much offering of late, but demand is very quiet, and the quotation for refined is hardly any better than £26 per oz., while raw metal stands at £24. Other precious metals in the same group have also shown a drooping tendency, palladium being at about £17 per oz.

RUBBER continues steady, with better demand all round. There have been a fair number of orders from America, and although the home manufacturers do not display any great interest, there is every likelihood of their coming into the market shortly. Against an appreciable rise is the weakness of the Continental buyers; France is at present engaged in political troubles, whilst Germany finds the greatest difficulty in financing even small purchases. The statistical position remains very strong, and last week a further reduction of 383 tons was made in the stocks. The London stock now

stands at 51,096 tons. Quotations (Wednesday, 5 p.m.): No. 1 standard crêpe and ribbed smoked sheet, spot and June, 10½d.; July-September, 11d.; October-December, 11½d.; January-March (1925), 11½d. per lb.

SEEDS.—There is practically no change in the seed market this week, business still being very quiet. CANARY SEED is firm. Mazagan of good quality is offered at 29s. 6d. per cwt., and inferior at 28s. 6d. CORIANDER SEED, sound Morocco, has been sold at 20s. per cwt.; CUMIN SEED, Malta 110s., Morocco 100s.; DILL SEED, 20s. to 21s.; FENNEL SEED, Indian 37s. to 40s.; FENUGREEK SEED, Morocco 21s. per cwt.; HEMP SEED, Manchuria 17s. 3d. per cwt.; LINSEED, Morocco 27s.; MUSTARD SEED, English 36s. per cwt.

SHELLAC has been steady, but quiet, under the influence of the holiday. Usual standard TN orange quality closes at 265s. per cwt. in bags on spot; fine to superfine second orange is 300s. to 360s., AC cakey 265s., and GAL 260s. TN for August delivery has sellers at 260s., and 252s. 6d. to 257s. 6d. has been paid for October. To arrive TN for June-July shipment is 260s. c.i.f.

STARCH PRODUCTS.—Dutch farina is unaltered at 19s. per cwt. on the spot, and 18s. per cwt. f.o.b. is quoted for prompt shipment. American and Dutch maize starch powder is 16s. per cwt. on the spot. American maize starch crystals offer at 21s. 6d. net. Dextrin is 24s. 6d. for superior Dutch and 22s. 9d. for No. 2 on the spot. American canary is 19s. 3d., and white 19s. on the spot. Best rice starch crystals offer at 40s. for English, 33s. 6d. per cwt. for Continental.

STRAMONIUM LEAVES.—Foreign offer at about 37s. 6d. per cwt., c.i.f. to arrive.

TURMERIC.—Fair Madras finger on the spot is tending firmer at 67s. 6d. to 70s. per cwt.

Essential Oils

BUSINESS is quiet, and very few changes are reported. Sicilian orange is rather cheaper, and reports from the source state that speculative contracts have been made at low prices. Bergamot is slightly easier. Spanish spike is cheaper in some directions. American peppermint oil has declined on the spot.

ANISE (STAR).—"Red Ship" is unchanged at 2s. 5d. per lb. on the spot. The price quoted for May-June shipment is 2s. 3½d. c.i.f.

BERGAMOT on the spot is rather easier, with sellers of 37 to 38 l.a. at from 18s. to 18s. 6d. per lb.

BOIS DE ROSE (FEMELLE).—Spot is rather easier in some directions at from 18s. 6d. to 19s. 6d. per lb.

CANANGA.—Spot supplies of Java appear to be very scarce, and holders quote at from 10s. to 10s. 6d. per lb.

CASSIA on the spot is unchanged at from 7s. 6d. per lb. for 80 to 85 c.a., and for shipment 7s. c.i.f., or a shade less might be accepted.

CINNAMON.—Ceylon on the spot is about steady at 6d. per oz. in bottles, and 5½d. in large drums.

CLOVE.—English distilled is steady on the spot at from 7s. to 7s. 6d. per lb. as to quantity.

GINGERGRASS.—Sales of "insoluble" have been made at 7s. 6d. per lb. in original pots.

JUNIPER BERRY.—B.P. oil has been in fairly good demand recently, and sellers are asking from 5s. to 5s. 3d. per lb.

LAVENDER.—French oil continues in fairly good demand, the spot value ranging generally from 24s. 6d. to 28s. 6d. per lb. for 35 to 40 per cent. ester oil. In some directions only small lots are offered at 30s.

LEMON.—Spot is about steady at from 3s. 2d. to 3s. 4d. per lb. In one direction 3s. c.i.f. has been quoted this week, but up to 3s. 4d. c.i.f. is asked.

LIME.—West Indian distilled is unchanged at from 5s. to 5s. 1½d. per lb. on the spot. Hand-pressed is firm at 9s.

MINT.—Japanese dementholised Kobayashi-Suzuki is quiet and unchanged on the spot at 15s. 6d. per lb. For June-July shipment 14s. 6d. c.i.f. is quoted.

ORANGE.—Sicilian sweet is on the easy side at 12s. to 12s. 6d. per lb. Bitter is 12s. West Indian sweet is unchanged at 9s. 6d. Californian is in steady demand at 7s. 6d. to 8s. per lb. as to quantity. A small arrival has taken place.

PEPPERMINT.—American natural tin oil is easier on the spot at 20s. to 20s. 6d. per lb., and possibly 19s. 6d. would be accepted on a firm order. English peppermint oil is quoted at from 60s. to 70s., according to holder.

ROSEMARY.—Spanish is quoted on the spot at about 1s. 9d. per lb. French oil is quoted at 2s. 10d.

SANDALWOOD.—B.P. East Indian oil is steady on the spot at from 24s. to 25s. per lb. as to quantity.

SPIKE.—Spanish is easier at from 4s. 9d. to 5s. per lb. as to seller.

Aromatic and Synthetic Chemicals, etc.

	Per lb.		Per lb.
Acetophenone ..	12/6	Hellotropine ..	6/9 to 7/-
Amyl butyrate ..	6/9	Hydrocinnamic ..	
Amyl salicylate ..	3/3	aldehyde ..	23/6
Anethol ..	4/6	Iso-eugenol ..	15/6
Aubepine ..	13/6 to 14/-	Linalol ex bois de ..	
Benzaldehyde f.f.o.	3/6	rose ..	25/-
Benzyl acetate ..	2/9 to 3/-	Linalyl acetate ..	26/6 to 28/6
" alcohol ..	3/3	Methyl anthranilate ..	8/6 to 9/-
Bromystrol ..	9/6	" salicylate ..	2/2 to 2/4
Cinnamic aldehyde ..	5/6	Musk ambrette ..	48/-
" " natural ..	15/6	" ketone ..	48/-
Citral ..	9/3	" xylol ..	15/9 to 16/-
Coumarin ..	19/6	Phenyl acetic alde- ..	
Diphenyl methane ..	4/3	hyde ..	24/6 to 30/-
oxide ..	4/3	Phenyl ethyl alcohol ..	14/- to 15/-
Ethyl phthalate ..	3/3	Rhodinol ..	50/- to 57/6
Eugenol ..	11/3	Safrol ..	1/10 to 2/-
Geraniol ..	10/6 upwds.	Terpineol ..	1/8 to 2/3
" (palmarosa) ..	35/-	Vanillin ..	25/3 to 26/3

Pharmaceutical Chemicals, etc.

A FEW changes are reported this week, but generally the market keeps fairly steady. Business continues to be limited to comparatively small dimensions, and prices in many instances are a matter of negotiation. Boric acid is £3 per ton cheaper.

ACETANILIDE shows a further weakening and is now offering on a dull and unsteady market at about 2s. 3d. to 2s. 4d. per lb. for B.P. quality.

AMIDOL seems of very little interest: dealers quote at about 11s. 3d. to 11s. 6d. per lb.

AMIDOPYRIN is in short supply and there has been more inquiry of late. Dealers have advanced their prices to about 14s. 3d. to 14s. 6d. per lb.

AMMONIUM BENZOATE remains dull, with the quotation at about 3s. 6d. per lb.

ASPIRIN.—Business has been of no consequence of late, being limited to small domestic orders. Dealers' prices for good brands are about 3s. 2½d. to 3s. 3d. per lb., according to quantity.

BARBITONE keeps steady on a dull market, with spot offering at about 15s. 6d. per lb.

BENZALDEHYDE (percentage of chlorine 0.03) is level on the week, with not much business about: spot about 3s. 6d. per lb.

BENZOIC ACID (B.P.) on spot continues to be offered in small lots at about 3s. 6d. per lb., with occasional demand.

BENZONAPHTHOL is rather dearer, owing to scarcity of supplies, and dealers quote up to about 3s. 6d. to 3s. 9d.

BORIC ACID.—On June 11 the English makers reduced the price of boric acid by £3 per ton and XXX preservative by £2 per ton, the current rates being as follows: Boric acid, crystal, granulated, or small flaked (commercial), £45 per ton; powdered ditto, £47; powdered, extra fine, £49; crystals (B.P. quality), £51; powdered ditto, £55; powdered, extra fine, £57. Preservative XXX, £78. Packed in free two-cwt. bags, carriage paid to any station in Great Britain in minimum lots as under: Ex contract for not less than five tons, five cwt.; not ex contract, one ton. C.i.f. prices for foreign ports quoted upon application. Borax prices are unchanged.

BROMIDES.—The tone of the spot market continues erratic and quotations vary to a great extent. The demand for the large supplies that appear to be available is by no means good. Ammonium is about 9½d. to 10d. per lb.; potassium, B.P., crystals and granular, 7d. to 7½d. per lb.; sodium, B.P., crystals and granular, 7½d. to 8½d. per lb., according to quantity.

CALCIUM LACTATE is reported as selling very well of late, and dealers' prices are tending to move up from 1s. 7d. to 1s. 9d. per lb.

CHLORAL HYDRATE is steady, and moderate orders continue to come on the market at about 3s. 8d. to 3s. 9d. per lb. for duty-paid crystals.

CITRIC ACID.—There is plenty of inquiry for B.P. crystals, but prices seem to vary to an unusual extent. One or two large parcels have changed hands at something under 1s. 6d. per lb., less 5 per cent. The usual quotation for small lots is 1s. 6d. to 1s. 6½d. per lb.

CREOSOTE (B.P.) keeps steady at the former rate of about 2s. 6d. per lb., with the market quiet.

CREOSOTE CARBONATE shows but little life; dealers offer at about 6s. 6d. per lb.

GUAIACOL CARBONATE is seldom inquired for; dealers' quotations are level at about 12s. 6d. per lb.

HEXAMINE is plentiful on spot, and holders are finding business sluggish. Their prices are about 3s. 8d. to 3s. 9d. per lb.

HYDROQUINONE has been the source of continued satisfactory business, and prices are from 4s. 3d. to 4s. 9d. per lb., according to quantity.

LACTIC ACID (B.P.) is steady, but in no great demand: imported is about 2s. 8d. to 2s. 9d. per lb.

METHYL SALICYLATE is not a good market by any means. Prices are somewhere near 2s. 2d. to 2s. 3d. per lb., but those figures are difficult to obtain.

METHYL SULPHONAL keeps up to last week's higher rates of 27s. to 27s. 6d. per lb., with not much offering.

PARAFORMALDEHYDE is slow of sale, with prices unchanged at 3s. 4d. to 3s. 6d. per lb.

PARALDEHYDE from dealers has been in fair demand at from 1s. 4d. to 1s. 5d. per lb.; the former rate for big lots.

PHENACETIN, if anything, is rather firmer, and most dealers are now looking for close up to 6s. 6d. per lb. It is doubtful if 6s. 3d. per lb. would be accepted to-day.

PHENAZONE is steady but not very active; dealers' prices are from 7s. 9d. to 8s. per lb.

PHENOLPHTHALEIN is easier on a dull market, with dealers quoting about 6s. 10d. to 7s. per lb., but those prices are difficult to obtain.

POTASSIUM PERMANGANATE, B.P., is steady and active with the price round about 7½d. per lb., in drums.

POTASSIUM SULPHOGUAIACOLATE is seldom called for: dealers' price is about 5s. 6d. per lb.

QUININE.—Makers quote sulphate at 2s. 3d. per oz. net, and for Japanese 2s. 2½d. is quoted.

RESORCIN continues unsteady and dull at about 5s. 9d. per lb.

SACCHARIN shows no change at 62s. 9d. to 65s. per lb. for 550 strength, according to quantity.

SALICYLIC ACID (B.P.).—The quoted price here is being kept up to somewhere near 1s. 9d. per lb., but actual business reported is well below this level and approaching 1s. 6d. for really big business. Some holders, however, are refusing this offer.

SODIUM BENZOATE (B.P.) is steady and selling on spot at about 3s. per lb.

SODIUM DIETHYLBARBITURATE remains dull with the price nominal at about 17s. per lb.

SODIUM SALICYLATE has weakened. Offers are cheaper and freely made. The demand is still small. B.P. crystals, about 2s. 6d. per lb.; powder, B.P., about 2s. 4d. per lb.

SULPHONAL remains dull with sellers asking up to 16s. 6d. per lb.

TANNIC ACID.—B.P. Levis is steady on a quiet market as quoted at about 3s. per lb.

TARTARIC ACID.—It is difficult to define this market. For some time the quotation has been about 1s. 1½d. to 1s. 2d. per lb., yet one hears of business being done in large lots at well under these rates.

TERPIN HYDRATE shows no change on the week with dealers quoting at 1s. 8d. per lb.

THYMOL is steady and in fair demand as quoted at 15s. 3d. to 15s. 6d. per lb. by dealers.

VANILLIN is strong, and dealers' prices for 100 per cent. are fully maintained at about 25s. 3d. to 25s. 6d. per lb.

Industrial Chemicals, etc.

London, June 11.

Spot prices for a number of articles show a tendency to lower rates this week. At the same time the tone of the market as a whole keeps fairly steady. Complaint of the poorness of business is commented upon on reports to hand from all parts of the country, and does not seem to be confined to any particular branch of industry.

ACETIC ACID, which sustained a fall in dealers' spot prices last week, remains quiet, with values so far held: 80 per cent. technical, £46; 80 per cent. pure, £48 per ton, in barrels; 98 per cent. glacial, about £69 per ton, in glass demijohns, ex wharf.

ACETONE is reported short in supply on spot, but the position to arrive and for shipment is extremely easy, and for this business the price of £95 to £97 10s. per ton for B.G.S. quality, in drums, is not easy to obtain.

ALUM remains slow, with dealers' prices from £10 to £10 10s. per ton, for lump, in casks.

AMMONIA ALKALI from British makers for home trade is steady at the old rate of £6 15s. per ton, in bags, f.o.r. makers' works.

ARSENIC.—There has been no indication of any revival in the demand for Cornish powder, and some of the mines are now apparently willing to take orders at about £45 per ton, f.o.r., but buyers are indifferent, being prejudiced by the continuous cheap offers of Japanese down to about £40 c.i.f. Offers of Grecian arsenic are being held back at current rates, while producers have, it is stated, no very important quantities to sell.

BARIUM CHLORIDE shows no alteration on the week, with imported, 98 to 100 per cent., quotable at about £14 5s. per ton.

BLEACHING POWDER on spot is steady but quiet at about £10 per ton.

COPPER SULPHATE.—The demand from the Continent having slackened off of late, as usual at this time of year, especially under adverse exchanges and trade uncertainties, there has been more inclination by certain makers to shade terms down to £24 10s., and even less, f.o.b., for casks, less 5 per cent. discount. Some large makers, however, are still asking £25 to £25 5s., but doubtless taking less money for good-sized lots.

CREAM OF TARTAR.—The position shows no change from that reported last week. A fair amount of small orders have been booked at about 84s. to 85s. per cwt.

EPSOM SALT of commercial quality has been in some request, with dealers asking £5 to £5 5s. per ton.

FORMALDEHYDE has sustained a big drop in value and spot holders are now down to about £54 to £55 per ton for 40 per cent. volume. There is still little business.

GLAUBER'S SALT is steady, but rather quiet; dealers quote at about £3 10s. to £3 15s. per ton, in single bags.

LEAD ACETATE is cheaper and a small business is reported now and again: brown, about £45; white, about £46.

LITHOPONE continues to find some business; dealers are selling 30 per cent. Continental red seal at about £22 per ton, which shows a slight fall in value.

OXALIC ACID is perhaps a little steadier this week after two weeks of rapidly weakening markets. The price is quotable at about 43d. per lb., but sales are reported to be very difficult to effect.

POTASH CAUSTIC.—The demand for small spot parcels of 88 to 92 per cent. solid continues, with dealers' selling price somewhere near £31 per ton, in drums.

POTASSIUM CARBONATE is unchanged on the week. Spot is rather free in supply, with 90 to 92 per cent. at £24 and 96 to 98 per cent. at £26 per ton.

POTASSIUM CHLORATE.—While British makers' prices are reported at high rates, some business in large quantities of foreign is intimated close up to 3d. per lb.

POTASSIUM PERMANGANATE is steady, with imported commercial quality moving off well at about 7½d. per lb.

POTASSIUM PRUSSIATE.—Dealers offering British have found but little business of late and have now brought their offers down to about 8d. per lb., but there is still little interest shown by buyers.

SAL AMMONIAC is rather firmer on spot, with the demand quite up to average: dog-tooth crystals, about £44 to £44 10s.; medium, about £40; fine white crystals,

about £27 to £28 per ton, with spot values tending to harden.

SODA CAUSTIC.—British makers' prices for home trade, packages free, carriage paid, are: 60 per cent., £16 17s. 6d.; 70 per cent., £17 17s. 6d.; 76 per cent., £19 7s. 6d. per ton, in drums. Contracts, 20s. less. Dealers' prices, ex wharf, shipping port, are: 70 to 72 per cent., £15 10s.; 76 to 77 per cent., £17 10s. per ton, in drums. British makers' prices for export vary as to destination.

SODIUM ACETATE is steady, with supplies limited on spot at about £25 per ton.

SODIUM BICARBONATE.—British makers' price for home trade only is unchanged at £10 10s. per ton, in bags.

SODIUM BICHROMATE for home trade only from British makers is unchanged at 4½d. per lb., carriage paid.

SODIUM HYPOSULPHITE.—Photographic pea crystals continue in good demand, with dealers selling close up to £14 10s. per ton, in one-cwt. kegs; commercial quality is about £9 10s. per ton, in casks.

SODIUM NITRATE keeps steady, but a slight fall may come along shortly: 96 per cent., about £13 17s. 6d., and ditto, refined, about £14 per ton, f.o.r. London.

SODIUM NITRITE is rather firmer, with the price at about £28 per ton, f.o.b. U.K. port, with spot supplies short.

SODIUM PRUSSIATE is cheaper, with dealers offering British material down to 4½d. per lb.

SODIUM SULPHIDE keeps steady on a quiet market. Imported, 60 to 62 per cent., about £14 10s.; broken, about £15 10s. per ton, in drums.

SULPHUR.—Business has been more restricted over the holidays, but the tone is steady, although the demand is coming along fairly well. Current rates for crude range from £5 15s. to £6, delivered Manchester. For refined terms are £9 10s. for Sicilian flowers, and £7 15s. for roll, delivery, ex warehouse, at this end.

ZINC PRODUCTS.—There is a very steady feeling, due partly to the recent renewed advance in zinc metal. Continental competition in zinc oxide, however, is unrelaxed, and home makers always find it difficult to adjust their terms to the cost of raw material. Current quotations vary from about £40 to £50, but B.P. for export commands relatively high terms up to as much as £55 per ton. Zinc ashes are in demand at about £13 10s., based on 70 per cent. Zinc dust is variously quoted from £41 to £47 10s., f.o.r.

COAL TAR PRODUCTS, ETC.—Conditions in this section show little change on the week, which has shown no improvement in inquiry or actual business. Most items are weak at the values quoted. Pitch remains neglected. ANILINE OIL remains dull, with British makers quoting at 7½d. to 9d. per lb., naked, ex works. ANILINE SALT shows little life. British makers quote 7½d. to 8½d. per lb., naked, ex works. BETANAPHTHOL is steady on a dull market at 1s. 1d. to 1s. 2d. per lb. TOLUOL keeps steady, but business is by no means brisk: 1s. 9½d. to 1s. 10½d. for pure, and 90's at 1s. 4½d. to 1s. 6d. per gallon. XYLOL.—Pure, 3s. 3d.; commercial, 2s. 3d. per gallon: British makers continue to quote at these rates. CREOSOTE OIL continues unsteady at the values quoted and demand is still slow and small: about 7½d. to 7¾d., ex works, and 8d. to 8½d. per gallon, f.o.b. U.K. port. CARBOLIC ACID crystals have again been slow in moving off, and the f.o.b. price for bulk quantities is not at all firm as quoted at about 6½d. per lb. for 39° to 40° C. ice crystals. CRESYLIC ACID is about the best item in this market, with business and values well sustained: 97 to 99 per cent. is from 2s. to 2s. 3½d. per gallon. NAPHTHALENE is steady on quotation, but actual business is not at all brisk. Quoted at about £17 per ton. PYRIDINE has fallen a little again, with the price now at about 22s. to 22s. 6d. per gallon. The demand is not so good. HEXAMETHYLENE is inclined to be a shade easier as quoted at 3s. 8d. to 3s. 9d. per gallon. Pure METHYL ALCOHOL remains steady on quotation at £80 per ton, ex wharf, London; good business is lacking. PITCH has been idle for some weeks, with the price nominal. Reports to hand show that this condition continues in full evidence: about 57s. 6d. per ton, f.o.b. East Coast.

Fixed Oils, etc.

WITHOUT exception products in this market have been in quiet demand during the week. The few alterations in prices are generally to lower levels. Turpentine is cheaper and still weak; linseed oil closes higher.

ACID OILS.—Last week's prices continue to be quoted on a very quiet market. Coconut and palm-kernel, 40s.; groundnut, 36s. 6d.; soya, 35s.; all spot. **CASTOR** is quiet with prices more or less nominal at unchanged rates. **Pharmaceutical**, 66s.; first pressings, 61s.; second pressings, 60s.; all spot, in barrels in not less than one-ton lots. **Madras**, 58s. c.i.f. French medicinal oil is quoted on the spot at 74s. per cwt. in cases, and 70s., c.i.f. London, in barrels. **COCONUT** is still very quiet; quoted rates are about the same. **Deodorised**, spot, 50s.; **Ceylon**, 43s. c.i.f.; **Cochin**, about 51s. c.i.f. **COTTON** is not at all steady, and business remains dull. **Deodorised**, 51s.; common edible, 49s.; soapmaking, about 49s.; crude, 40s.; all spot. **GROUNDNUT.**—Still no improvement in business in this product; quoted values level on the week; deodorised, 55s. spot; crude Oriental, 49s. c.i.f. **LINSEED** (raw, naked).—Business during the few days the markets were open over the holidays has been limited in volume, but the tone has been fairly steady and values have moved in very narrow limits. At the close on Wednesday the market advanced. Values for later positions show a slight improvement. On spot 40s.; June, 38s. 9d.; June-August 38s. 9d.; July-August, 38s. 6d.; September-December, 37s. 9d.; Hull, on spot, 38s. 3d.; June, 37s.; June-August, 38s.; September-December, 37s. **Boiled linseed oil** on spot is quoted at 41s. **PALM-KERNEL.**—Business has been small during the past week, and values are unchanged; deodorised, 47s. 6d.; crude, 42s. 6d.; all spot. **PALM.**—After a week of rather quieter demand this market closes quite steady at rates slightly below those quoted a week ago. **Lagos**, 37s.; **softs**, 3s. 9d.; **mediums**, 37s.; **hards**, 38s.; **bleached**, about 39s. 6d.; all spot. **RAPE.**—A dull market all the week and prices are again easier; refined, about 51s.; crude, 48s.; all spot. **SOYA.**—Deodorised has dropped down to about 49s. on a dull market, while crude is so far quoted unchanged at 42s. 6d., all spot. **TURPENTINE.**—Owing to very dull American conditions and a slow demand over the holidays, the tendency has continued in buyers' favour, and business is persistently quiet. Values, especially for delivery up to the end of the year, show a further weakening: on spot 68s. 6d.; July-December, 66s. 3d. per cwt. The London stocks indicate a total of about 8,300 barrels, which, together with further several small lots on the way from America, constitutes an ample supply. **WOOD.**—Hankow in barrels shows a slight recovery being quoted at 78s. per barrel spot.

LUBRICATING, MINERAL AND BURNING OILS, ETC.—There is little change of importance to comment upon this week. Over the holidays business has been dull throughout. **BENZOL.**—British makers' prices, ex works, in tank wagons, show no change; market quiet. Crude 65's, 10½d. to 1s.; standard motor, about 1s. 6d.; pure, 1s. 8½d. to 1s. 10d. per gallon. Prices, including free drums, f.o.b., about 6d. per gallon more. **FUEL OIL.**—The spot position is quite steady, although rather quieter of late: 890 gravity, £5 7s. 6d.; 950 gravity, £4 7s. 6d. per ton, ex tank. **PARAFFIN WAX AND SCALE.**—Wax has shown no improvement in demand, and closes quiet and none too steady at the quoted rates of 3½d. to 5½d. per lb., according to melting-point, in bags. Scale is dull as offered for shipment at about 26s. per cwt., c.i.f. U.K. port. **SOLVENT NAPHTHAS.**—This market is easier and much quieter; 90 to 160 is quotable at about 1s. 3d. to 1s. 3½d. per gallon, and heavy 90 to 190 at about 1s. 2d. per gallon. **PARAFFIN OILS.**—American oils are steady at level figures; American standard white, 1s. 1d.; water white, 1s. 2d. per gallon, barrels free. Prime white Russian kerosene is unchanged at 6½d. to 7d. per gallon, ex tank; 7½d. buyers, barrels filled free; 10½d. per gallon, barrels free, ex wharf, London. **PETROLEUM JELLIES.**—Market still dull with values weak as quoted: white to snow white, £64 to £69; amber and yellow, £25 to £28; red vet, about £22; dark stiff green, about

£20 per ton, ex wharf, London. **WHITE OILS.**—The demand has been quiet during the past week, and quoted values are unchanged; special No. 1, £44; No. 1, £38; No. 3 half-white, £30; No. 4 half-white, about £20 per ton, in free drums or barrels, ex wharf, London. **LUBRICATING OILS.**—Inquiry is reported somewhat better on spot. Values here and for shipment are much about the same. The American exchange for sterling is likely to have an adverse effect on the position: pales, £14 to £27; reds, £15 to £28; dark cylinders, £17 10s. to £37; filtered cylinders, £23 15s. to £43 per ton, less 2½ per cent., ex wharf, London. **SOLUBLE OIL**, steady at £29 per ton, net. No. 1 **RUSSIAN OIL** continues fairly active and firm at £19 15s. per ton, less 2½ per cent., ex wharf, London.

Spanish Olive Oil Export Tax

THE Spanish Government has decided that in future the export tax on olive oil is to be levied on a sliding scale, and the amount will be fixed each month, based on the average prices ruling during the preceding month. The central committee of the oil producers will be required to inform the Minister of Agriculture, during the last ten days of each month, of the average prices at which ordinary grades of olive oil (not exceeding 4°) have been sold, ex mill, and on the first of the succeeding month the scale of charges to be levied will be published in the "Gaceta de Madrid," by order of the Minister. The export levy will, in future, amount to 10 pesetas per 100 kilos, when the average monthly prices range between 174 and 196 pesetas per 100 kilos, net ex oil mill; if the prices averaged 196-218 pesetas, the tax will amount to 20 pesetas; on 218-239 pesetas, the tax will be 30 pesetas, and on 239-250 pesetas, 40 pesetas, while in the event of the average prices exceeding 260 pesetas, a tax of 50 pesetas will be levied. On the other hand, should the average monthly price of olive oil fall below 174 pesetas per 100 kilos, no export tax will be charged.

Ceylon Citronella Oil

A CORRESPONDENT to the "Times Trade Supplement" writes: Last year 1,118,619 lb. of citronella oil were exported from Ceylon, chiefly to the United Kingdom, the United States, France, India, Germany, Holland and Australia. The export of 1922 was 1,296,157 lb. The reduced export was mainly due to statements circulated in regard to adulteration of Ceylon citronella oil with kerosene, coconut or domba oils, methylated wood spirits, or Java spirits extracted from fermented molasses of sugar. Kerosene, coconut or domba oils are little or ever used at present, so practically the whole of the trouble is due to the use of alcohol. Some reports mentioned the introduction of spirits up to 14 per cent., an obvious exaggeration. The recent substantial import of citronella oil by almost all buying centres shows that consumers have adopted the reasonable basis of approximate "geraniol" content with or without alcohol. The export figures from January 1 to March 31 of this year consequently showed that 356,629 lb. had been exported, against 318,174 lb. in the corresponding period of 1923. New orders are coming in quite plentifully, and there is every indication that export will continue to grow in the course of this year. London Customs authorities should not treat the small percentage of alcohol in Ceylon citronella oil as dutiable, as the product as a whole is unsuitable for human consumption. The Java out-turn of citronella oil is about 800,000 lb. per annum. Almost the whole of this is absorbed by the growing perfumery and soap trades of Holland and Japan. Except for a very small extent of land covered with a type of wild citronella in the Moravak Korale, and a slightly greater acreage covered with a hybrid citronella grass known among the natives as "Lena Batu" in the Matara District, the rest of the citronella area of Ceylon is covered with only the true high-class citronella grass grown in Burma and Java and known among the natives of Ceylon as Maha Pangiri (large citronella). Expert opinion holds that citronella grass grown and distilled in Ceylon under ideal conditions is quite equal in "geraniol" content to the best grass grown and distilled in Java and Burma. The blending trouble will be investigated shortly by the Low Country Products Association, supported by the Ceylon Government. Consumers of Ceylon citronella oil need not be perturbed as to the purity or quality if they insist on a "geraniol" standard. The standard of colour will improve rapidly once prices reach a level at which it will pay to employ skilled superintendents.



Pharmacists in the Army

SIR,—Pharmacists, though still deprived of their lawful position in the Army Medical Corps, can now bring forward the findings of the Army report as official admission of the justice of their claims. It is one of the best advertisements of the "social and professional duties trained for and executed by the chemists of Great Britain." But what use will the Society make of it? (since aggression is not a weapon to be used by any learned societies save the medical!). From the standpoint of public or military importance the Pharmaceutical Society should make "history" out of the recommendations of the report. Two campaigns could be carried out—Parliament and the Press. Signatures from many thousands of people could be obtained by chemists themselves by exhibiting a statement of the matter over the official seal of the Society (or the Union).

I am, etc.,

A. J. M. (3/6).

SIR,—Your second article reviewing the position of pharmacists in the Army (*C. & D.*, June 7, p. 800) shows us quite plainly that our conception of the training and accomplishments of a pharmacist will not fulfil the requirements of the duties he would be called upon to undertake if recognised by the Army Council. Such things as radiology, electrotherapy and sterilisation of instruments do not at present come under our curriculum, and it becomes a serious question whether some provision should not be made for those students who desire to fit themselves for another career than a retail one. The Major examination has been morally defunct for a long time, and it would seem to be opportune now to confine the Qualifying examination to those pharmacists who desire to keep open shop—and, having regard to the way in which this examination has been stiffened of late, it is certainly sufficient for the purpose. Then convert the Major into a test which would be adequate to satisfy the requirements of positions in the Army, civil hospitals or similar institutions. In this way we might be able to open a door which would lead to satisfactory employment and permanent positions for many of the younger generation.

Truly yours,

PREPARED (10/6).

Analysts v. Pharmacists

SIR,—In the *C. & D.* of August 11 and September 15, 1923, there appeared two letters from a firm of city analysts, of which I am a director; in those letters attention was drawn to the difficult position in which pharmacists were placed by the vexatious prosecutions in connection with dispensing, and an offer was made to undertake the analysis of prescriptions and B.P. drugs at a nominal fee, until some official pharmaceutical body should see its way to take up the matter. The importance of this help to the pharmacist was fully proved by many letters received, and by the fact that the Retail Pharmacists' Union subsequently undertook the work and is still carrying it on. This public-spirited action, however, seems to have upset the council of the Society of Public Analysts. In their opinion the letters are directed against the interests of the analytical profession, and, after protracted consideration, they have just informed me that I may no longer consider myself a member of their Society. This decision, which means that disinterested help given to pharmacists in analytical matters should be discountenanced, is to be regretted. Personally, I hold that here, as in other countries, there should be close co-operation between the two professions, and that the antagonistic attitude taken up by certain analysts in the matter of dispensing prosecutions is entirely unwarranted. Though I consider it mistaken, I can well understand the attitude of the council of the Society of Public Analysts, that the pharmacist should be made to pay in full for analytical service, as

also their view that there is no room among them for anyone who, when there is a dispute between pharmacists and analysts, sides with the former, and I must admit that I am a pharmacist first and an analyst after. What I do resent is the fact that among the prime movers in this affair were certain gentlemen intimately connected with pharmacy and the British Pharmaceutical Conference, both of whom no doubt profess to have the interests of pharmacy at heart. It is a pity that the Pharmaceutical Society is not in a position to imitate the high-handed action of the Society of Public Analysts and expel from its ranks those who remember their allegiance to pharmacy on convenient occasions only. Meanwhile it is well that pharmacists should know these facts and be able to estimate at its real value the after-dinner speeches of those who profess to be their friends.

Yours truly,

J. COFMAN-NICORESTI.

15 Speenham Road, London, S.W.9.

Hospital "Dangerous" Drugs Order

MR. A. H. Jenkin, *hon. secretary of the Guild of Public Pharmacists*, recently addressed the Home Secretary regarding a letter to Mr. F. E. Trayner, to the effect that records must be kept respecting all prescriptions, containing no matter how small an addition of "dangerous" drugs. This, Mr. Jenkin stated, has not been the practice, as far as he can ascertain, of any of the Guild members, who have only kept records of those prescriptions which, as dispensed, are in fact "dangerous" drugs.

The Home Office reply is as follows:—I am directed by the Secretary of State to say that the question which was put to the Secretary of State, and to which his reply was confined, related only to the interpretation of Condition 3 of Schedule 1 of the Hospital Exemption Order of August 15, 1921, and the Secretary of State expressed the opinion that his Condition, since it refers to "any such drug or any medicine containing any such drug," would include medicines containing morphine, heroin, etc., and in any quantity, whether above or below the percentage mentioned in the Act. The only obligation which this condition imposes on a hospital is that such medicines may only be dispensed for an individual patient upon a signed or initialled prescription, which must be repeated whenever a fresh supply is required, and the Secretary of State understands that in some hospitals, at any rate, this is the actual practice. The records to which Mr. Peck refers are apparently those specified in Condition 4, and this Condition requires records to be kept only when the dispenser dispenses "the drugs," i.e., medicines and other preparations coming within the Dangerous Drugs Acts.

Sale Terms of Proprietaries

SIR,—It appears that the question of calculating profit will never be settled; it is like that old quibble, "Does the tyre of a wheel turn quicker than the hub?" The price at which the article is sold is the finish of a business transaction; therefore, true profit must be reckoned likewise. As a simile, should a chemist dispense a 25 per cent. solution calculated as medicament 25 parts, solvent 100 parts, the authorities would soon be on the trail. Threepence profit on the cost price of 1s. is therefore to be calculated as 20 per cent. A manufactures an article and sells at 10s. per dozen less 10 per cent. discount, which equals 9s. nett. The article costs 5s. per dozen, which leaves a profit of 4s., in other words, 80 per cent. profit on cost. In theory A has made 100 per cent. less 10 per cent. profit; in other words, 90 per cent. of 5s., which equals 4s. 6d. Who can convince A that his profit is 4s. 6d.? B, the wholesaler, buys at 10s. per dozen, less 10 per cent. discount, making a cost price of 9s.; 1s. profit on this cost gives 11-1-9 per cent. Can anyone convince B that his percentage is 11-1-9 and not 10 per cent? Personally, in making calculations I always show profits on the cost and selling prices. The question has been raised whether the retailer would be better off without proprietary lines. Individually, it is obvious he would not;

collectively, there is a doubt. For the sake of argument, we must suppose that an Act of Parliament has been passed forbidding the sale of patent medicines, and, of course, the advertising of such; would it give the chemist the same custom and increased profits? I think that the doctors would decide that question. It is understood that the chemist is not supposed to prescribe; but it is safe to assume that the doctors would see that he could not possibly do so by agitating for more stringent laws, so making it not worth while. That point must now be emphasised, as doctors to-day are not like the old school, but are a well-organised body with a decided touch of the commercial spirit, which has just been proved. The users of patent medicines can be divided into different classes. A number of them are entitled to benefit under the Insurance Acts, but hold the idea, rightly or wrongly, that they do not receive just treatment. These would be forced to accept panel prescribing, or else be classified with those who do not come under the Acts, yet cannot afford a doctor's fee. In this case a chemist's time would be occupied in measuring up pennyworths. Others again can afford a doctor's fee, but think twice about paying it; these would be forced to do so if the chemist was fined for prescribing. There is the customer who, by reading advertisements, imagines all sorts of ills, but without the advertising would be cured. Should the chemist be allowed to prescribe, within reason, the position would be different; but how long would it remain a profitable business? Understand that the P.A.T.A. would be useless; as a matter of fact, many now hold that opinion. Pharmacy would very soon develop into keen competition again, which would mean the cutting of prices, gradually making a chemist's own packed lines as unprofitable as those proprietaries which offer poor profits to-day. He would not even have the chance of fair substitution. Assuming that the cutting of prices was barred by mutual agreement, thus making pharmacy profitable, there is still the younger generation to come along, being attracted by the good profits. They would gradually overcrowd the drug trade again, and price-cutting would be automatically resumed. There is the possibility of more profitable dispensing, but I am afraid only a few would benefit; greatly increased Insurance dispensing would be the result. This might be made to pay, but the argument against this is that the authorities would want to cut the fees if the chemist was making a decent profit. The position with regard to toilet preparations is slightly different, assuming, of course, that proprietary lines in this class were also withdrawn. The retailer might be able to cultivate a trade in his own packed lines; but, without advertising, his turnover would fall far short of the present one. The drawback to this class of goods is the necessary machinery and moulds required for their manufacture, so he would have to depend upon the manufacturer for most. This, of course, would reduce the profits. I have not lost sight of the fact that yesterday's luxuries are to-day's necessities; but what about to-morrow? The greatest proportion of toilet preparations is used by the pin-money girls; but when trade recovers, the majority of these will be relegated back home (and I am optimistic enough to think they will be), then the sales will drop. To sum up, the chemist would not be better off without proprietaries, but would greatly improve matters by more co-operation along the lines suggested in my recent letter on over-production. This is greatly needed, for advertising is so fast becoming a science that it will make the Pharmaceutical Society and retail pharmacists mere pawns in the money-making game. There is better business waiting for the men who are determined to get it, and who realise that it won't be delivered by the postman.—Faithfully yours,

C. DENBY DAY (30/5).

The Foreign Prescription Case

SIR,—The councillors of the Pharmaceutical Society might show a little more common sense and balance. They appear to have solemnly discussed and appointed a deputation to somebody, they know not whom, in support of an illegality (*C. & D.*, June 7, p. 805). The

Manchester prescription case under the Dangerous Drugs Act was of no value as a test case, and it could have been easily put in order. It had been dispensed before and the medical man was not on the British register. Clearly, it was only a "scrap of paper." It may be a technical offence, and the excessive fine is probably the dope obsession in the minds of those who are called upon to see justice done. But evidently others are obsessed in another way, and what I think is a weak case is being pursued instead of the Council seeking to amend the many anomalies of the Regulations. It seems that they may make themselves look foolish by whining about this case.—I am, etc.,

A LONDONER (10/6).

SIR,—I suppose most of us expected the result announced in the foreign prescription case. This is just the case that, carried to appeal, would usefully show up the absurdity of the Dangerous Drugs Acts, which I imagine cannot have been really designed for such malignant purposes. Talking to brother pharmacists on the matter, I find opinions practically unanimous against handling scripts of the kind. Boycott them, in short, and demonstrate the Acts, so far, to be unwelcome! It is easy to understand this feeling, but I doubt whether it is the best way to deal with the matter, although it is perhaps the easiest. An appeal carried as far as it will go, with the case put by an eminent K.C., would at the least demonstrate that we do not consider ourselves common tradesmen. This is a matter for the Council as representing the whole of us, but here, again, there is a feeling of uncertainty and discomfort. Some men, indeed, say that we are being sold—an under-working against our best interests. Personally, I favour a full discussion before a competent tribunal. If that fails, then I imagine most of us will drop scripts altogether containing these special drugs.—Yours, etc.,

PHARMACIST, M.P.S. (3/6).

Where are our Qualified Men?

SIR,—“Where are our qualified men?” asks “Advertiser” in last week's *C. & D.* “Fewer men advertising,” says he. I say they are leaving their country not only for their country's good, but their own. They are in the greatest trek in history, viz., the emigration from Europe to the West and South of forty millions of surplus people, which began in 1920 and will be well over by 1935. They got the qualification all right, but their experience was *non est*, and their desire to serve the public wouldn't outlast a week in a shop. So how could they ever learn the trade? Every experienced man who ever worked with them in shop or college will agree. It's not entirely their fault; the whole examination and the syllabus is a wash-out, and has been for thirty years.

Yours, etc.,

JAY MACK (3/6).

Simplifying the Title

SIR,—The science of chemistry, represented in ancient days by the alchemist with the mystic still and stuffed crocodile, has grown to national importance. The word “chemist” no longer indicates an individual but a crowd. The field is so vast that the student can only hope to give his attention to a portion of it. Those who now practise chemistry may be classified as pharmacists, others as analytical, iron, coal, dye and other specialists. The pharmacist alone claims the right to the title of “chemist.” This even appears insufficient, for here and there Mr. A. labels himself “member of the Pharmaceutical Society,” also “qualified pharmacist” and “dispensing chemist”; Mr. B. may be found calling himself “pharmacist” and “chemist.” Why fog the public thus? To make it quite clear to the man in the street, the title “dispensing chemist” (to which, indeed, the pharmacist has the sole right) would be comprehensive enough to the dullest; “member of the Pharmaceutical Society” would be good garnish to the dish, and even add an additional flavour of a suspicion of “trades unionism,” which is in fashion in certain quarters just now. Q.E.D.—Yours, etc.,

AP SAMUEL (4/6).

Dispensing Difficulties and Notes

Silver Nitrate Pills

When the following pill is dispensed:—

Argent. nit. ...	...	...	gr x.
Pot. nit. ...	...	...	gr xx.
Excipientis ...	...	...	q.s.

the student is taught what kind of excipient to use, but is he warned, as he should be, to keep the pills excluded from the light? Otherwise they assume colours and create distrust in the mind of the patient.—ABEL SCHOLAR.

An Unusual Combination

SIR,—I should like your views on the following prescription:—

Syr. Eastonii ...	...	...	3j.
Ammon. carb. ...	...	...	gr. v.
Mist. pot. brom. ...	...	ad	3ss.

Yours respectfully,
C. B. (26/5).

[This appears to be quite easily compounded, and the resultant mixture may be dispensed without hesitation. Rub down the ammonium carbonate with the Easton's syrup and gradually add the mixture of potassium bromide. The precipitate which the mixture contains is light and diffuses when shaken, remaining suspended long enough to permit of equal distribution in pouring off successive doses.]

An Innocuous Precipitate

SIR,—Is the precipitate in the following mixture dangerous? If liq. strych. hyd. were ordered instead of liq. arsen. hyd., would it make any material difference?

Pot. brom. ...	...	...	3iv.
Syr. Easton. ...	...	...	...
Syr. Fellows' ...	...	aa	3ij.
Syr. ferri phos. co. ...	...	...	3j.
Syr. pruni virg. ...	...	...	3ss.
Liq. arsen. hyd. ...	...	...	3iss.
Aq. menth. pip. ...	...	ad	3x.

Faithfully yours,
NORTHERN P.H.C. (6/5).

[The precipitate which occurs in this mixture consists of colouring matter from the syrup of Virginian prune, and is in no way dangerous. You may have observed that the precipitate is very light and bulky, and, when the mixture is shaken up, it practically disappears. If solution of strychnine hydrochloride be used instead of hydrochloric solution of arsenious acid, it would not make any material difference. There is strychnine already in the mixture, introduced by Easton's syrup and Fellows' syrup.]

"Liquid Powder"

SIR,—Can you suggest the correct method of making up the following?

Glycerini ...	...	...	3iij.
Ac. carbol. ...	...	...	℥xij.
Amyli ...	...	...	3j. 3j.
Aq. rosæ ...	...	...	3iss.
Ol. rosæ ...	...	...	℥ij.

Yours truly,
PUZZLED (10/4).

[We should say the normal procedure is to mix the glycerin and rose water together and use to rub down the remaining three constituents. The prescription is so simple that we assume your query arises from uncertainty as to whether or not the compound should be heated. In the absence of specific directions we do not consider it would be correct to apply heat. Starch is not infrequently prescribed in lotions with zinc oxide, calamine and so forth, where it is not intended to be heated—just, for example, as it is employed in Lassar's paste and other ointments, when no one thinks of heating it. In the language of the beauty specialists, your lotion may be described as a "liquid powder."]

A Phosphorus Mixture

SIR,—Will you suggest the best method of dispensing the following prescription?

Syr. hypophos. co., Fellows' ...	...	...	3iss.
Arsen. ioidid. ...	...	...	gr. 1-5
Hyd. chlor. corros. ...	...	...	gr. 1-7
Phosphori ...	...	...	gr. 1-12
Syr. aurant. ...	...	...	3j.
Aq. anisi ...	...	ad	3viij.

Yours faithfully,
CAM-MAC (11/3).

[Mix the Fellows' syrup, syrup of orange and anise water together, and employ to dissolve the arsenious iodide and mercuric chloride by trituration in a mortar; then introduce in portions ℥ xvij. of compound tincture of phosphorus, B.P.C. This seems to us the only feasible way in which to compound the mixture. We have experimented with several other procedures.]

A Phenazone-Salicylate Mixture

SIR,—Mixtures containing sodium salicylate and phenazone with reasonable dilution remain clear; it is only when other salts are present in fairly large quantities that salipyrin is salted out, such as the following, which considerably alarmed the patient because the large acicular crystals could not be removed by agitation; this is agreeing with your correspondent "Sinapis" (*C. & D.*, May 3, p. 643). I send the crystalline deposit, which has been well washed:—

Mag. sulph. ...	...	...	3ij.
Sodii salicyl. ...	...	...	3iij.
Phenazoni ...	...	...	3iss.
Pot. brom. ...	...	...	3ij.
Aq. ...	...	ad	3viij.

Lucas and Stevens, in their book, report a similar chemical change, and suggest the copious deposit of crystals as containing phenazone associated with magnesia and salicylic acid.

Yours faithfully,
London, S.W.6. GEORGE ROE.

Phenol and Camphor Pills

SIR,—Will you inform me how the following pill should be massed?

Phenol. ...	...	...	gr. ss.
Camphor. ...	...	...	gr. j.
Quin. sulph. ...	...	...	gr. j.
Ext. nucis vom. sicc. ...	...	...	gr. ss.

Yours truly,
C. J. A. (29/4).

[Place the phenol and camphor in a short glass tube along with six grains of beeswax, cork securely and stand in hot water till melted, then cool in water from the tap; when solidified, scrape out and incorporate with the quinine sulphate and extract of nux vomica plus gr. vj. of powdered liquorice root previously well mixed in a mortar; roll out the mass gently, and cut into pills. The pills when newly cut will feel somewhat soft, but on standing for a little they set to a sufficiently firm consistence. A little more powdered liquorice root added to the mass will confer increased firmness if this is considered desirable.]

A Creosote Pill Excipient

SIR,—Some years ago, while suffering from intestinal trouble, I made myself the following pill:—

Bismuth. subnit. ...	...	...	gr. iij.
Pepsin. (scale) ...	...	...	gr. j.
Creosot. ...	...	...	℥ j.

From the ease of compounding, I subsequently tried pepsin as an excipient for creosote, and found it the excipient—"since when I have used no other"—and have recommended it to all my pupils and students.

Yours faithfully,
E. GRIFFITHS.

Birkenhead.

Legal Queries

H. J. N. (10/6).—The prescription you send shows liq. morph. mur. 1 in 6, and the safety limit is 106 minims see *C. & D. Poisons Card No. 5*) to the fluid ounce. The prescription is therefore outside the Dangerous Drugs Act.

A. E. F. (6/6).—Pil. hyd. c. cret. et opii is an exempted preparation under the Regulations of the Dangerous Drugs Act. It contains equal parts of hyd. e. cret. and pulv. ipecac. co., therefore your prescription is outside the Act and its regulations. The Home Office has not yet ruled that the pills can be sold only in one size nor that a preparation under another name is brought within the Act.

H. J. (4/6) has been charged, by a bottle association, s. 3d. each for some of his own syphons. He cannot raise to which of his customers he originally supplied the syphons. Is the association legally entitled to charge for them? [It must be assumed that the association collected the syphons or came by them in the ordinary course of its business, and we consider that it is legally entitled to charge "H. J." for them. The amount of the charge is a matter for agreement between "H. J." and the association.]

Penguin (7/6) asks what is the meaning of the expression "all annuities given by this my will to females shall during coverture be without power of anticipation." Does it mean that the annuity is to be paid only so long as the recipient remains a spinster or a widow? [The clause does not affect the right of a female annuitant to continue to receive her annuity after her marriage. It merely means that while she is married she shall receive interest only and shall not have the right to call for the payment of her of any part of the capital from which the income is derived. This restriction is commonly applied to trusts held on behalf of women in order to prevent an unscrupulous husband from obtaining possession of the capital.]

Horticulturists (5/6).—The test for a licence to sell poisonous substances for agricultural or horticultural purposes is "keeping open shop." Thus, if anyone comes to your place and buys over the counter, without let or hindrance, you are, we think, keeping "open shop." If, on the other hand, transactions are on the scale of supplying bulk quantities for large consumers, you would come under the "wholesale" definition. The generally accepted provision of wholesale dealing applicable to your case is "Purchasing for use in the ordinary course of their business" in contradistinction from "keeping open shop" where any individual might come in and buy without question.

F. A. B. (7/5) recently replied to an advertisement offering a business for sale. He received a letter from the advertiser stating that he held the premises on a seven years' lease which could be extended to twenty-one years. At the advertiser's invitation "F. A. B." went to see the business, his railway fare being £2 10s. He found that the "lease" is merely an unstamped document which contains no reference to an extension of the tenancy. "F. A. B." saw the landlord who says this; his counter-part of the lease is stamped, but he refuses to entertain the idea of an extension. In the circumstances, is "F. A. B." entitled to claim from the advertiser the expenses he has been put to? [We certainly consider that the advertiser should reimburse "F. A. B." for the expense to which he has been put; but we doubt whether there is any "cause of action" upon which "F. A. B." could successfully take legal proceedings against the advertiser. It would be extremely difficult to prove that the advertiser was not justified in thinking that an extension of the lease could be secured, and it is possible that the landlord may, at one time, have told the advertiser that an extension would be allowed. The mere fact that the lease is not stamped does not invalidate it, since it could still be stamped upon payment of a penalty.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

H. C. R. (12/5).—ENDOCRINE GLANDS.—In addition to the book mentioned in the reply published in the *C. & D.*, June 7, p. 818, a subscriber recommends Berman's, "The Glands Regulating Personality: A Study of the Glands of Internal Secretion in Relation to the Types of Human Nature." This is published in the United States, and although not filling your requirements, is mentioned as an aspect of the question which has interested our readers.

Smoker (12/5).—Carbon monoxide is a product of combustion not only of tobacco but of other vegetable matter, such as paper (of cigarettes) or herb tobacco. The object of using thin paper for cigarettes is to employ the minimum proportion of paper to tobacco.

E. D. O. (17/5).—INSECTICIDE FOR BUGS.—Where a house is infested with bugs fumigation of the rooms with hydrocyanic acid is recommended. Another plan is to apply the following solution freely to all cracks in the walls and floorboards:—

Mercury perchloride	...	...	2 oz.
Sodium chloride	...	...	2 oz.
Water	...	...	19 oz.
Methylated spirit	...	...	19 oz.
Turpentine	...	...	30 oz.

A feather is a convenient means of placing the liquid in the cracks of floorboards. Warning should be given of the poisonous nature of the solution.

R. G. M. (18/5).—FORMALDEHYDE SOLUTION should be stored in amber bottles in a cool place so as to delay the deposition of paraformaldehyde. Methyl alcohol is stated to prevent decomposition, but its presence is otherwise objectionable.

T. C. (18/5).—TOOTHACHE TINCTURE.—The formula for which you ask is as follows:—

Tannic acid	...	...	360 grains
Tincture of iron	...	...	3 minims
Oil of cassia	...	...	6 dr.
Oil of cloves	...	...	2 dr.
Oil of peppermint	...	...	2 dr.
Spirit	...	...	6 oz.

H. J. S. (19/5).—TEST FOR CARBON MONOXIDE.—We think your customer is referring to palladium chloride solution (5 per cent.) as a test for carbon monoxide. When the gas is passed through the solution metallic palladium is precipitated and a change in colour takes place. Palladium chloride test paper has also been suggested, the paper darkens in contact with carbon monoxide and ultimately becomes black. Other tests are the liberation of iodine when the gas is passed over heated iodic anhydride, the iodine being absorbed by chloroform or carbon disulphide and the quantity judged by the colour. Gold chloride solution (yellow) is also reduced to colloidal gold (ruby red) when carbon monoxide is passed through it.

Alpha (20/5).—TREATMENT OF PSORIASIS.—The best external treatment is ung. chrysarobin. Some cases respond well to tab. thyroid. gr. j. twice daily, and some to small doses of arsenic and potassium iodide. Every case requires great care and perseverance.

J. C. (21/5).—BLACK SCOUR IN CALVES.—Your calves are presumably suffering from black scour, which is analogous to white scour, but more fatal and difficult to cure. The causes are much the same as white scour, the colour being due to weakness of the blood vessels and extravasation of the blood into the intestines. The prevention is the same as for white scour, viz., disinfect the navel string immediately after birth and continue doing so for a few weeks. This may seem a long time, but if it means the saving of a few calves it is well worth the labour. Give a dose of castor oil occasionally; if a bought-in calf after a journey or long fast, give it immediately. Do not give too much milk at one time;

rather give it oftener and at regular intervals, and add a fourth the quantity of lime water. The milk should be warm and of good quality, and all food substitutes, etc., should be skimmed. A few doses of whisky or port wine should be given when there is great prostration, also give the following :—

Chlorodyni vel. tr. opii,	
Sodii bicarb. aa	3ij.
Æther. sulph.,	
Spt. vini rect. aa	3j.
Aq. ad	3xij.

Sig. A wineglassful in flour gruel once or twice daily, according to the age and size of the animal and severity of the disease. A bismuth and acacia mixture may also be given.

T. W. (22/5). and E. W. (14/5).—There is no reciprocity of pharmaceutical qualifications between the United States and Great Britain. In Canada, Ontario has agreed to reciprocity. Particulars of Canadian qualifying bodies are given in the *C. & D.*, December 9, 1922, p. 807.

D. W. B. (22/5).—**LEMONADE POWDER.**—The following is a suitable formula for the variety of lemonade powder you require :—

Tartaric acid	1 oz.
Oil of lemon	20m.
Tincture of turmeric	1 dr.
Powdered sugar	1 lb.

Put up in 1-oz. packets, sufficient for a pint of lemonade.

G. A. (22/5).—**WEED KILLER.**—The following are suitable weed killers, which do not contain scheduled poisons :—

1. Spirit of salt 2 parts, water 3 parts.
2. Saturated solution of acid potassium sulphate.
3. Copper sulphate 1 part, water 9 parts.

J. O. (22/5).—**CROW PEST.**—*Nux vomica* mixed with flesh was formerly used as a poison for crows, but it is now illegal to lay poison for that purpose. The best remedy for the crow pest is the organisation of shooting parties.

P. A. (Paris) (22/5).—**SOLIDIFIED EAU DE COLOGNE.**—This is made by melting 4.5 parts of stearin, then adding 0.5 parts of sodium carbonate (to saponify) and 95 parts of eau de Cologne and heating for an hour in an autoclave. Colouring may be added if required. When nearly cool the compound is poured into glass moulds and allowed to set. Care must be taken to prevent as much as possible evaporation of the spirit both during preparation and afterwards.

C. T. (23/5).—The books you mention are not sufficiently rare to command good prices at London book auctions. It would be better to advertise them in the sales column of the Coloured Supplement.

J. C. (23/5).—(1) **COCAINE EYE-DROPS.**—The formula and particulars as to the preparation of the Factory Act eye-drops were given in the *C. & D.*, January 12 and 19. (2) The hair wash (formula for which you send) would be improved by the addition of sp. myrciæ (to give odour) and tr. croci (for colour). The amount of pilocarpine nitrate in the hair wash is too large for general sale and should be reduced, especially as tr. canthar. is also an ingredient.

J. H. (23/5).—Boric acid is employed as the antiseptic after operations on dogs. These animals are particularly susceptible to coal tar disinfectants, which should in consequence be avoided.

S. C. M. (25/5).—**MANDL'S PAINT.**—There are several formulas for this, the following being one much employed :—

Potassium iodide	gr. xx.
Iodine	gr. vj.
Oil of peppermint	ʒv.
Glycerin	to 3j.

W. F. (26/5).—We have no formula for the compound rheumatism ointment to which you refer, but you could devise one after a few experiments. The proportion of allyl isosulphocyanate should not exceed 3 per cent. (2) The references you give to the "known, admitted and

approved" remedies are not sufficiently definite, there being no formulas under the title rheumatism liniment in the *C. & D. Diaries*, 1917 and 1920, nor is there a lung tonic with the reference number "P.F. 11."

E. M. B. (26/5).—**PHARMACEUTICAL BOTANY.**—The series of articles has been running in *THE CHEMIST AND DRUGGIST* for over a year and will continue until the end of June. After that we shall probably publish the series in book form.

J. W. L. (26/5).—**COD-LIVER OIL EMULSION.**—There is such a wide choice of formulas for cod-liver oil emulsion that it is difficult to select one to meet your requirements. The following, from "Pharmaceutical Formulas," will probably suit you :—

Pulv. acaciæ	5ij.
Pulv. tragacanth	3ij.
Pulv. amyli	3ij.
Ol. morrhue	3xxiv.

Mix well and add gradually.

Aque	3xvj.
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Emulsify, then mix in.

Syrup.	3vj.
Ol. amygdal. ess.	ʒxx.

This should have added to it acid. salicylic. ʒss., dissolved in spt. chlorof. ʒss.

W. S. (27/5).—**ARISTOLOCHIA RAD.**, priced in the *C. & D. Retail Price List*, is the root of *Aristolochia indica*, an equivalent of serpentry rhizome sanctioned by Indian and Colonial Addendum of the British Pharmacopœia for use in India.

M. J. F. (27/5).—**BLEACHING SPONGES.**—The simplest way to bleach sponges which have become soiled is to wash them well, then immerse in a bath made by dissolving 2 dr. of potassium permanganate and 2 oz. or more of hydrochloric acid in 2 gals. of water. A few minutes' immersion suffices to make the sponges almost white; then remove, press and wash in cold water, finally soaking in an alkaline bath (potassium carbonate 1 lb. to 2 gals.) to restore the colour. Aniline orange is sometimes used finally.

H. C. (28/5).—There is no reciprocity of qualifications between New Zealand and Great Britain, but the British and Irish qualifications are accepted by the Pharmacy Board of New Zealand. The conditions of employment in the Dominion are similar to those prevailing in Australia. The hours of business are not more than in England, and the pay of registered assistants, in Christchurch (N.Z.) is £4 6s. a week.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," June 15, 1874

Eau de Cologne

Dr. Chadwick, of Boston, while lately looking through the medical pamphlets preserved in the Boston City Library, came across an advertising circular entitled "*Vertus et Effets de l'excellente Eau admirable, ou Eau de Cologne, approuvée par la Faculté de Médecine, le 13 Janvier, 1727.*" From this it appears that eau de Cologne was originally concocted for a quack medicine. In the circular, which in type, paper and language bears evidence of belonging to the last century, it is stated that this water was invented by an Italian, Signor Paul Feminis, an old distiller of Cologne. It is described as a "volatile spirit, extracted from the rarest and most delicate simples; an elixir which has the power of restoring the parts of the body that are attacked by any disease, or predisposition to the same, of fortifying and establishing their natural functions, of insinuating into them a moderate and living warmth, which sympathising with their own, reanimates their vital forces, and aids the coctions." It seems to have been employed internally and externally, and to have been a sovereign remedy for apoplexy, paralysis, palpitation, obstructions of the liver, spleen, and kidneys, migraine, sore eyes, ringing in the ears, toothache, gout, burns, bruises, etc. The virtues for which it has since become celebrated were apparently then thought to be worthy of notice.

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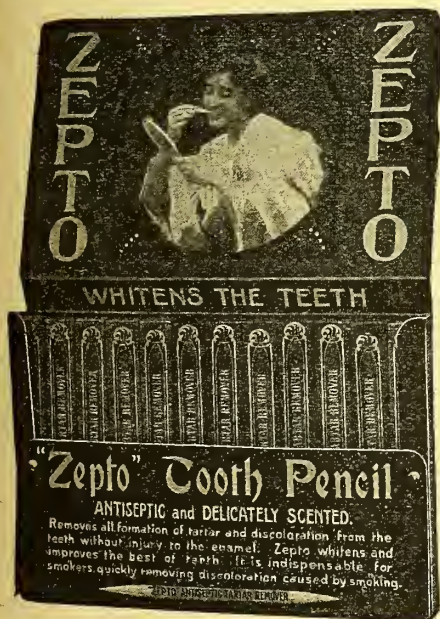
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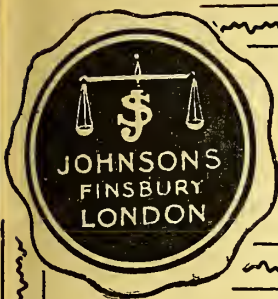
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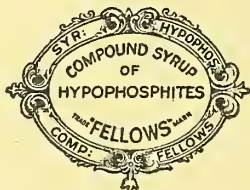
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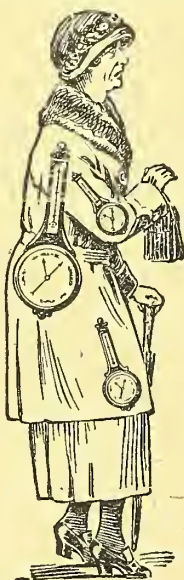
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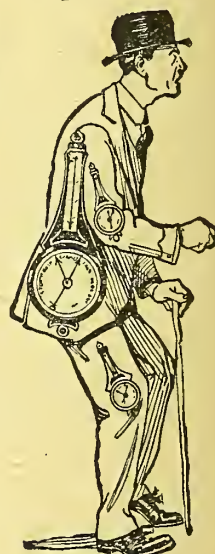
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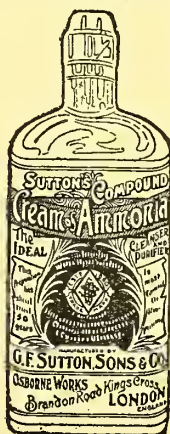
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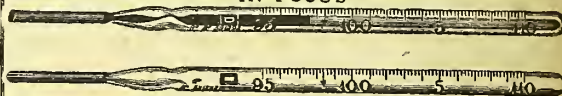
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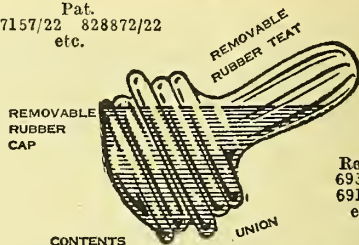
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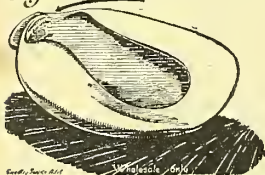
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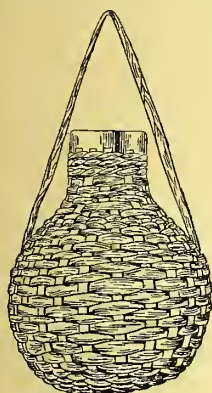
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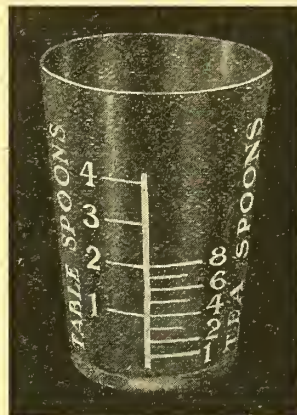
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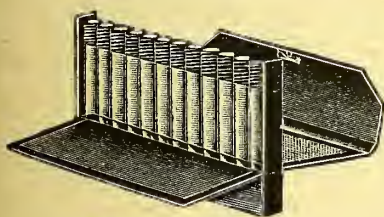
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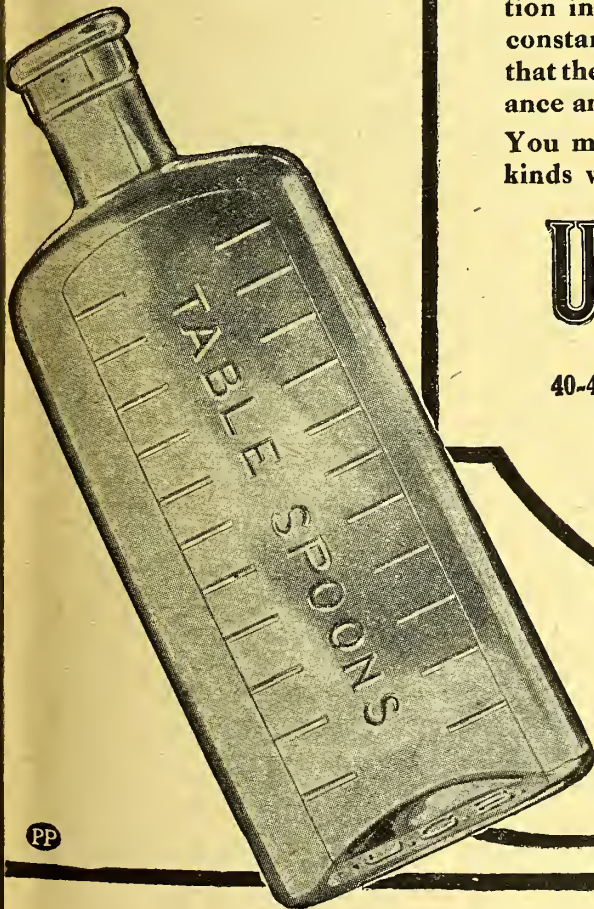
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Manufacturing Chemists
BRIGHTON ENGLAND

THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST.
LONDON E.C.4

JUNE 14, 1924

This Supplement is inserted in every copy of The Chemist & Druggist.

THE CHEMIST AND DRUGGIST SUPPLEMENT

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9.—EAST COAST.—Cash Retail and Dispensing Business, situate in good position; handsomely fitted Pharmacy and convenient living accommodation; new lease will be granted; ill-health cause of sale; further details on application; price £2,500, or valuation terms entertained.

10.—WEST OF ENGLAND (Death Vacancy).—Cash Drug Stores, situated in working-class district; returns, about £900 per annum, with scope for increase by the addition of N.H.I. Dispensing; small house, with garden; no serious opposition; price £700.

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12.—LIVERPOOL (Few Miles from).—Good-class Business, with Kodak Agency; returns, £2,500 per annum, increasing; net profit, £650; double-fronted shop; good working stock; modern house; bath room; private entrance; vendor's own freehold, which may be purchased, or lease would be granted; offers invited.

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2.—POPULOUS SUBURB.—Retail Dispensing Business; returns average £30 p.w.; convenient lock-up premises, held on lease 14 years, at rental of £110; good scope for business under personal supervision. (114)

3.—RIPON, YORKS.—Established 1720; in present hands 18 years; Family Retail and Dispensing Business; returns, £1,500; could be considerably increased; premises consist of 2 shops, one let off on lease £60 p.a.; warehouse and good dwelling accommodation, with vacant possession. Purchaser can acquire property, and £1,000 can remain on mortgage at 5 per cent. Fullset information supplied, and reasonable offer accepted for quick sale. (99)

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5.—YORKS.—Small Family Dispensing and Photographic Business; recently established; returns average £14 p.w.; premises, which are held on weekly tenancy, consist of lock-up shop, with cellar. (113)

6.—BRIGHTON.—Cash Drug Stores; recently established; returns, £12 per week, but good scope for increase by a young qualified man; 7 years' lease; rent, £42 per annum; good living accommodation; centrally situated; £900, or offer. (121)

7.—LIVERPOOL.—Old-established Family Retail and Dispensing Business; returns, £36 p.w., excluding N.H.I.; premises consist of lock-up shop and basement, held on lease for 10 years, at £65 p.a., inclusive; reason for disposal, proprietor entering Medical Profession. (105)

8.—CUMBERLAND.—Well-stocked Pharmacy, unopposed; returns, £30 per week, with undoubted scope for increase; Kodak, N.H.I.; large double windows and Dispensary; price £550 all at. (103)

9.—BOURNEMOUTH.—Old-established Retail Dispensing Business. In present hands 30 years; returns, £1,669; premises consist of well-fitted shop in mahogany, stock room and dwelling accommodation, consisting of 5 rooms on 1st floor, 3 on 2nd floor, 2 cellars, long garden, and entrance for goods; lease, first 7 years £200, second 7 years £225; price £750; stock and fixtures at valuation. (93)

10.—LONDON, N.W.1.—Old-established Cash Business, with N.H.I., in working-class district; returns, £30 p.w.; rent £84, let off £49; well fitted; £700 or offer. (116)

11.—SOUTH COAST TOWN.—Essence and Chemical Business for disposal; average turnover during last three years, £5,500; proprietors of several well-known lines; convenient premises held on agreement at a rental of £120 p.a.; great scope for development. (111)

12.—MONMOUTH.—Old-established Business in market town; returns, £35 p.w.; rent, £50; rates, £34; 7 years' lease run renewable; well stocked and fitted; Kodak and Optics; N.H.I.; price £1,250. (118)

13.—SOUTH COAST RESORT.—Recently established Business, excellently situated in centre of extensive developments; returns, £36 per week; price £2,500; 7 or 14 years' lease can be obtained at rental of £200, rising to £250 p.a., or property could be acquired for additional £1,000, in which case £2,000 could remain on mortgage. (125)

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PLYMOUTH.—Store Pharmacy, recently established, having all the essentials locally for rapid development, to Post Office (opening shortly), near cliffs, tramway stage; district (rapidly extending), much favoured by visitors high-class residents; Kodak agency, guaranteed protection bring long stretch of main road—against opposing chemist; entrance, six windows, elegant pharmacy throughout; rear garden, excellent living accommodation; present rent approaching £2,000 per annum; price £2,500, approximately valuation. Henshley, 99 Southbourne Grove. (Stamped 2/-.)

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GLAMORGAN.—Prosperous colliery town, 9,000 inhabitants; only one other Chemist; for immediate disposal, through illness of Proprietor; present takings £25 per week; easily be doubled; no N.H.I. (which would be very large), Photography or Optics; large, well-fitted shop; house small; 14 good lease; rent £45; £800 or nearest offer for quick banker's reference essential. "Glamorgan," 243/19, Office is Paper.

GLAMORGAN.—Sound Cash Retail Business in main thoroughfare; present turnover £1,800; can be greatly increased by managerial personality; accountant's figures shown; up-to-date good fittings; price £1,320; a genuine opportunity. Apply 243/19, Office of this Paper.

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GLAMORGAN, N.W.—Returns £5,000; capable of considerable increase; excellent opportunity for an individual with time and energy; good Family Business, with very popular retail; long lease; price stock and fixtures, plus £2,000 lease and goodwill, or £1,000 for goodwill if house is not red; part payment can remain if desired; main thoroughfare; good house; Proprietor, whose attention has been devoted to his business, contemplates retiring from Retail Pharmacy. 242/28, Office of this Paper.

GLAMORGAN.—Densely populated working-class district; small but profitable Chemist's Business for Disposal, with possession of small house; scope for enterprising Pharmacist with cash; small working expenses; stock and fixtures about £15 weekly. 243/7, Office of this Paper.

GLAMORGAN, LEEDS.—40,000; estbd. 3 years; £1,000, £1,400, £1,600; Kodak, N.H.I., opening for Optics; Fixtures; Goodwill and Lease, £200; stock at valuation about £1,000; part could remain; rent, £65 inclusive; option of house; up yard; cellar; apprentice kept; can await buyer's notice; no agents. "Chemist," 43 Durham Rd., Sheffield.

GLAMORGAN, LEEDS.—Established 98 years; returns last 12 months, about £2,500; qualified man could greatly increase. No N.H.I.; Kodak Agency; large house, bath room, nearly 1 mile long full of fruit trees, coach house, garage, etc.; price of business, £2,500; freehold property, 100; purchasers with £2,500 can have full particulars. 243/8, Office of this Paper.

WEST OF ENGLAND.—Unopposed light country Retail; returns, £900; net profit, over £300; plenty of scope for increase; N.H.I., about 500 monthly; price £600, about value of stock and fixtures; small house. "West," 47/503, Office of this Paper.

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A WELL-KNOWN and old-established Proprietary line, having been marketed for the past 20 years, with extensive connection, patent rights, etc.; capital required, £400 to £600; stock would be offered at valuation, with plant, connection and patent rights at an agreed sum. Write "Flies," 45/465, Office of this Paper.

CHEMIST Business in residential part of Liverpool; good-class family connection; wants personal attendance; stock £250, fittings valued at £300; takings, £1,000 p.a.; plenty of scope for increase; N.H.I. 200-300 per month; rent, £64; house part let off; purchaser could easily obtain possession; owner leaving retail business; lowest price £650. 47/510, Office of this Paper.

CHEMIST Business (Liverpool), in thickly populated thoroughfare; lock-up shop; takings, £20 weekly; N.H.I. and Kodak Agency; splendid opportunity for enterprising worker; turnover easily doubled by personal supervision; price £400; owner leaving retail business. 47/509, Office of this Paper.

CHEMISTS and Druggists Sundriesmen and Hospital Supplies; old-established Business; turnover about £30,000 per annum; stock at valuation, probably about £6,000; goodwill, fixtures, and fittings £5,000; commodious premises, 20 minutes' rail from London Bridge; lease five years unexpired, low rental. For further particulars write P.C.B., 73/36, Office of this Paper.

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DRUG STORES for Sale; main road; beautifully fitted; double-fronted shop; electric light; good living accommodation; stock and fixtures at valuation; no goodwill. W. Goode, 65 Rochdale Road, Bury.

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A DVERTISING Specialist in Perfumery, Toilet and Medicinal Goods offers favourable Partnership in established business to practical Manufacturing Chemist; about £300 capital required; really good opening in fascinating business with big possibilities; could be part time at first. Address, "Progress," P.C.B., 74/13, Office of this Paper.

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CHEMIST, with Branch Pharmacies, is willing to purchase sound Business, with freehold premises, London suburbs, Surrey or Kent; main road position; strictest confidence. 235/6, Office of this Paper.

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GOOD-CLASS Retail and Dispensing; turnover £3,000 or over; Midlands preferred. Particulars, in confidence, to Sander, 27 Rainbow Hill, Worcester.

WANTED, a good Business; Blackpool, London, or South Coast; turnover £5,000 to £10,000; a good price given for a good business. 241/9, Office of this Paper.

£2,000 to £4,000.—Chemist's Business wanted; London or provinces; must be scope for a real live man; partnership would be considered, or even a smaller business capable of being worked up. Slater & Slater, 15 New Broad Street, London, E.C.

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BARNES.—Improver Assistant wanted for good-class Dispensing and Retail; some knowledge of Photography essential. Apply, stating age, height, experience and salary required, to Feltwell & Son, 90 Church Road, Barnes, London, S.W.13.

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Applications are invited for the post of Second Lecturer and Demonstrator in Pharmacy. The position is a whole-time appointment, commencing 1st September next. Preference will be given to candidates possessing the Major qualification and some teaching experience. Salary in accordance with the Burnham Provincial Technical Scale. Full particulars and Form of Application (to be returned by June 28th) may be obtained from the Principal, Municipal Technical School, Suffolk Street, Birmingham.

P. D. INNES, Chief Education Officer.

BIRMINGHAM.—Linells, Balsall Heath, have vacancy for Qualified Chemist at Hoath Street Branch; salary pro rata in return for good service; also Qualified Locum from July 1, 4 weeks.

BIRMINGHAM DISTRICT.—Wanted, Qualified Male Assistant with good all-round experience; age about 25 to 35; one who could take charge. Please state full particulars, salary required, references, to 243/8, Office of this Paper.

BRISTOL.—Unqualified Male Assistant, about 30, with knowledge of Photography; must be good Window-dresser and Salesman; first-class references required. Apply, giving full particulars age, height, experience, and salary required, 241/18, Office of this Paper.

CITY.—Qualified Senior of good appearance and address; accurate Dispenser (no N.H.I.); hours 8.30 to 7.30, one evening 6, and Saturdays, 1.30; good-class London (preferably City) experience; age 25-30. Full particulars of experience, salary required, etc., to "City," 47/508, Office of this Paper.

EAST Coast Seaside Resort.—Junior required at once for season for good-class business; one with knowledge of D. and P. work. State age, height, salary (indoors or outdoors), experience, and names of two last employers. 242/35, Office of this Paper.

EAST COAST.—Wanted at once, until September, Junior (male); must be good Counterman and have knowledge of Photography; references, age and salary required (outdoors). Frank Kirkby, M.P.S., Sutton-on-Sea, Lincs.

GLOUCESTERSHIRE.—Improver; just out of apprenticeship; suitable for small Pharmacy; Counter and Dispensing; easy work. State age, height, salary and other particulars. Applications not answered in seven days respectfully declined. 242/22, Office of this Paper.

HAMPSTEAD.—Part-time Assistant (male) wanted in High-class Dispensing and Family Business. Apply, with full particulars, to "Pharmacist," 242/6, Office of this Paper.

HORLEY.—Assistant required for about three months; age 24-30. Apply by letter, stating full particulars and salary required (outdoors), to A. B. Higgs, Chemist-Optician, Horley, Surrey.

LEICESTER.—Junior, unqualified, for Light Retail and Dispensing, at once. State full particulars to Hearnshaw, 40 West Street, Leicester.

LIVERPOOL.—Immediately, Qualified Assistant required to take charge of Branch; young preferred; progressive salary and permanency to right man. State age and salary required to commence and photo, if possible, which will be returned, to L. H., 241/32, Office of this Paper.

LONDON.—Experienced Dispenser (qualified, male) as Senior; good salary; outdoors. Apply, "B.," 47/511, Office of this Paper.

LONDON CITY.—Wanted, Junior Assistant (male) for three months from early date; outdoor; no Sunday or holiday duty. Apply Pcllcek & Co., 133 Fenchurch Street, E.C.3.

LONDON, E.C.4.—Qualified male Assistant required at once; young; knowledge Photography Essential; no Sunday or Bank Holiday duty; permanency. Apply, Shadforth Prescription Service Ltd., 49 King William Street, E.C.4.

LONDON, N.—Qualified Assistant wanted; able to take charge if necessary; must be a good Salesman, energetic and accustomed to quick Counter trade, with knowledge of Photography and Window-dressing. Apply, with full particulars of past experience, age and salary required, to 243/28, Office of this Paper.

LONDON, S.E.—Qualified Assistant wanted; permanent situation; must have good references. Write, stating wages, etc., Banks, Ltd., 356 Walworth Road.

LONDON, S.E.—Wanted, a qualified Senior Assistant (age about 30), also a Junior Assistant (age about 20), in a good-class Family and Dispensing business; outdoors; permanency; must be good Dispensers and Countermen and have knowledge of Photography. Apply, giving full particulars, age, height, experience, salary required, and when disengaged, to 245/18, Office of this Paper.

MANCHESTER.—Junior or Improver for good-class Retail and Dispensing Business. State age, salary required and full particulars of experience to J. S. Breeze, Pharmaceutical Chemist, Rusholme.

NELSON (Lancashire).—Qualified Assistant wanted for busy Counter trade and N.H.I. Dispensing. State age, height, experience and when at liberty (with photo, if convenient) to Hartleys, Chemists, Railway Street, Nelson, Lancashire.

NORTH WALES.—Manager for Country Business; heavy Dispensing; permanency; commission; share of profits; good berth. Full particulars to L. Rowland & Co., Wrexham.

SEASIDE, to September 25th; competent Assistant accustomed to High-class Retail and Dispensing with Photographies; accustomed to brisk business and possessing undeniable references. Kindly give details of previous experience, age, height, salary required, when disengaged, single or married, enclose photo (returnable) to D. T. Evans, Ltd., Chemists and Opticians, Margate.

SHERINGHAM.—Wanted, for about four months, young unqualified Assistant, good Dispenser, for General and Photographic business. Apply, giving full particulars, age, experience, references and salary required (outdoors), to J. B. Goch (W. H. Burrell & Co.), High Street, Sheringham, Norfolk.

ORQUAY.—Junior Unqualified Assistant (male), indoors, in good-class Dispensing Business. Apply, with full particulars, to James Newlyn, The Wellswood Pharmacy, 19 Ilsham Rd., Torquay.

WORTHING.—Lady Assistant, Unqualified, wanted end of June for good-class Dispensing Business; Book-keeping, counter, some Dispensing; give full particulars in first letter; photographs returned; applications unanswered in 4 days respectfully declined. H. Reynolds, 39 Belsize Road, Worthing.

FULLY qualified Pharmacist required by an Approved Institution under the N.H.I. Acts; normal hours, 9.30 to and 5.30 to 8; no Sunday work; Wednesday evenings free. Applications, with copies of not more than three recent testimonials, stating age, married or single, salary required, and particulars as to experience, etc., to Mr. G. H. Kirkup, City Road, Cambridge.

GOOD opening for a young Qualified Assistant, who has some speciality, such as languages, Photography, Trusses. Apply, stating experience, age, height and salary required, 242/3, Office of this Paper.

ASSISTANT, young, unqualified, wanted for good-class Business; please state age, experience, salary, etc.; permanency suitable gentleman; progressive salary. Walter, 210 Shirley Rd., Southampton.

ASSISTANT; permanent or for 3 or 4 months; Counter, Dispensing, Photographic (D. & P.). State age, height, salary, references, with photo (returnable); Midlands. 242/40, Office of this Paper.

TO ONCE.—Smart, unqualified man, about 25; outdoors; used to quick, light Retail and Dispensing; one not afraid of ink; must be good Window-dresser and have Photographic experience. Apply, with full particulars as to age, experience, salary required, to C. Breese, Chemist, Streatham, S.W. one, Streatham 446.

DISPENSER.—Lady required for High Barnet, Hammersmith, and East Ham districts; Counter experience an advantage. Apply, 47/506, Office of this Paper.

EXPERIENCED all-round Assistant required for season; well up in D. and P. work; no Sunday or holiday duty; outdoors. Please state fullest particulars, age, experience, salary required in first letter, giving references. Frederick Liner, Photographic Chemist, Gt. Yarmouth.

EXPERIENCED Junior Assistant (male) wanted in good-class up-to-date Pharmacy in Surrey; Dispensing, Counter and Photographic; no N.H.I.; good references essential; permanency suitable man; outdoors. Apply, with full particulars, to 2/9, Office of this Paper.

M. RIMMINGTON & SON, LTD., 9 Bridge Street, Bradford, have a vacancy for a Junior Assistant; good Dispensing and Counter experience essential. State full particulars, salary required (outdoors).

ENTLEMANLY Junior Assistant, chiefly for Dispensing. Full particulars, salary, etc., to T. C. Cornwell, Hanley.

HEPPELLS, Chemists, London, W., require two Qualified and two Unqualified Assistants; must be smart Countermen well up in all branches. Apply by letter, giving full details of experience and stating when disengaged and salary required, to General Manager, Heppells, 164 Piccadilly, London, W.1.

IMMEDIATELY, Junior Assistant (Indoors) with good Dispensing experience. State age, salary required, height, and photo if possible, to Thresh, 4 Spring Gardens, Buxton, Chy.

JUNIOR Assistant required for the season (outdoor); good Dispenser. Particulars, references, and salary required to B. Cornfoot, Chemist, Herne Bay.

LEWIS & BURROWS have a vacancy for a well-trained young Assistant; excellent prospects for suitable man. Apply, 146 Horn Bars, E.C.

LOCUM, young, Unqualified, wanted from August 18 to August 30 and again from September 8 to September 20 at a Business in the West End of London. Reply, stating age, experience, salary required, etc., to 240/22, Office of this Paper.

LOCUM TENENS Dispenser; East London; morning and evening Surgery; two weeks commencing July 28; state terms. 1/2, Office of this Paper.

MANAGER, Qualified; must have had good all-round experience; also Unqualified Assistant. Apply, 3 Ridgmount Ct., Tottenham Court Road.

MEYER DAVIDSON, Ph. Chemist, Brondesbury, N.W., will require in July a Qualified Senior Assistant, with good experience; married; furnished house supplied. Apply, giving full particulars, 342 High Road, N.W.6.

PHARMACIST wanted to run small Branch Shop at Ingleton, Yorks; suit young lady or gentleman recently qualified, wishing experience as Manager. Apply with usual particulars and enclose photo to Pumphrey, Chemist, Bentham, near Lancaster.

QUALIFIED Manager, smart and up-to-date, capable of taking charge of a business doing £100 per week; must be well up in Photography; please state full particulars in first letter—salary required, whether married or single, age, height, when at liberty, how long in last post; references of two last employers; good salary for a good man; if not answered by Thursday morning declined with thanks. Also Junior as Locum, Dispenser, for July and August. 46/500, Office of this Paper.

QUALIFIED Manager; single preferred; excellent prospects; must be at liberty immediately; state age, experience, and salary required. 241/13, Office of this Paper.

QUALIFIED Managing Assistant wanted; must be well up in Photography and good Counterman. Apply with two recent references, photo and salary required, Frank Edwards, 192 Cowbridge Road, Cardiff.

QUALIFIED Assistant required as cover; good Dispenser and Counterman; age about 45; permanency. Apply with photo and full particulars to Haynes, The London Pharmacy, Honiton Devon.

QUALIFIED Junior Assistant, about 25 to 30, chiefly for Dispensing and Counter, at once; good references essential; state salary required (outdoor) and usual particulars. Power & Son, 9 High Street, Walton-on-Thames.

QUALIFIED Superintendent, good Window-dresser, to take active part in management of small Limited Company doing good-class Family trade; country town near London; hours light; Photographic knowledge essential; references and usual particulars. 242/8, Office of this Paper.

SOUTHALLS, 17 Bull Street, Birmingham, require a Qualified Junior for their Dispensing department. Apply, with full particulars, including salary expected, by letter only in first instance.

UNQUALIFIED Assistant wanted for June 16; must be good Dispenser and accustomed to quick Retail trade. Apply, with usual particulars re salary required, etc., to Stewart, c/o Vincents, Chemists, The Broadway, Waltham Green, S.W.6.

WANTED, at an early date, a Relief Assistant; Dispensing and Counter; not necessarily qualified, but must be competent, for three weeks. E. Millhouse, 26 New Road, Gravesend.

WANTED, Junior Assistant for the season. Apply, with full particulars to Clare & Hunt, Ltd., Chemists, Scarborough.

YOUNG Qualified or good Unqualified Assistant for good-class Retail, Dispensing and Photo Business; must be quick, capable and thoroughly honest. Hall, Chemist, 31 The Broadway, Crouch End, N.8.

WHOLESALE.

CAPABLE Assistant required in Sundries and Instrument Department of London Wholesale Druggists. State experience and wages asked to 45/451, Office of this Paper.

REPRESENTATIVE with good connection in Eastern Counties and North-Eastern part of London required by well-known House; salary and commission; full particulars must be given in first application, which will be treated with confidence. 46/496, Office of this Paper.

REPRESENTATIVE required for Scotland for Drugs, Sundries, and Packed Goods. Apply, giving full details, age, qualifications, experience, salary required, etc., to 241/7, Office of this Paper.

REPRESENTATIVES required, with connections amongst Chemists, to extend sales of well-advertised Cold Water Dyes for Home Dyeing, Toilet Soaps, etc.; commission basis; every support given. State fullest particulars of exact territory covered, etc., to 47/507, Office of this Paper.

RESIDENT Travellers required for Lancashire and Yorkshire, North and South Wales, and Scotland, to carry Chemists' Sundries as a side line; liberal terms and every encouragement to really capable men. 241/12, Office of this Paper.

TRAVELLERS wanted for North, Midlands, West and South Coasts for attractive, nationally advertised Toilet Article selling through Retail Chemists, Hairdressers and Stores. The best salesmen in each district are invited to apply, with details of ground and experience; salary and commission. 47/502, Office of this Paper.

TRAVELLER required, with assured connection; East Coast district; calling on Chemists; required to carry additional lines (Surgical Rubber Goods); liberal commission. Write full particulars (in confidence), 47/504, Office of this Paper.

WANTED immediately, capable Commercial Manager for a small Firm of Wholesale Chemists situate in the North of England; capital of the Company is £10,000; experience of the Drug Trade and knowledge of Company affairs essential; good organiser and sales-creating ability; ample scope for advancement to the right man. Apply, giving full particulars as to age, experience, when at liberty, copies of recent testimonials, wage required, etc. Applications will be treated in strict confidence. No. 47/501, Office of this Paper.

[COLONIAL, INDIAN AND FOREIGN.]

COLONIAL PHARMACY.—An English firm of Chemists require an Assistant early in July, with the qualification of the Pharmaceutical Society of Great Britain; salary £350 a year, quarters and servant allowance; two years' engagement; first-class passage out and home; applicants must not be over 33 or under 27, must be unmarried, and of good address; a knowledge of Optical work would be preferred. Write, giving exact age and experience, and state when disengaged; photograph essential. Engagement will be made in this country; travelling expenses paid for interview. 46/477, Office of this Paper.

ITALY.—Qualified Assistants required, with or without previous Continental experience. Write, stating full particulars as to age, experience, salary required, and if possible enclosing photograph to be returned, H. Roberts & Co., Via Tornabuoni, 17, Florence.

ASSISTANT, with Minor qualification, required for Bombay; age about 23; liberal progressive salary on 3 years' agreement, with every prospect of permanency. Replies, with requisite particulars, to 47/505, Office of this Paper.

TABLET MAKER.—Young man, thoroughly understanding the rudiments of his craft and with practical experience, required as Assistant in a Colonial Laboratory; passage paid out; three years' agreement; good prospects; healthy climate. Apply, by letter only, to Lennon, 14 Lafone Street, London, S.E.1.

SITUATIONS WANTED.

RETAIL.

[HOME.]

A.A.—MISS GRACE RENNIE, Pharmacist, has free dates, August and September; Locum, Hospital; highly recommended. 61 Church Road, Moseley, Birmingham.

ACTIVE worker; thoroughly efficient; successful Manager; any district; disengaged; unqualified; 46. "Chemist," 11 Kingsdown Road, Hooloway, N.19.

AS Locum, or part-time; competent, Dispensing, Photography, etc.; excellent references. "Statim," 243/26, Office of this Paper.

AS Manager; qualified, tall, and good appearance, 27; good Dispensing and Retail experiences; excellent references. 238/25, Office of this Paper.

ASSISTANT (unqualified) desires post; part or whole time; Counter and Dispensing. V. R., 47 Vartry Road, Stamford Hill, N.16.

ASSISTANT; age 34; height 5 ft. 7½ in.; well up Retail, Dispensing, and Photographic; first-class Counterman and Window-dresser; capable taking full charge; permanency or Locum. "Aspirin," 243/25, Office of this Paper.

ASSISTANT, 24, unqualified, requires change; 9 years' experience in present situation; Counter, Window-dressing, N.H.I. 243/20, Office of this Paper.

CHEMIST, qualified, 50, active, desires engagement as Manager (no jobs Cover); Prescription, N.H.I., Optics. "Permanency," 47/513, Office of this Paper.

COMPETENT Assistant; permanency or locum; married; first-class Counterman; at last berth many years. "Reliable," 2 York Road, Worthing.

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DISPENSER (lady) desires post; locum or permanency; 9 years' experience. Apply, Tankard, 31 Mabel Royd, Lidget Green, Bradford, Yorks.

DISPENSER (lady) requires post; Hall qualification; experienced; can do book-keeping, typewriting; knowledge Bacteriology. 243/5, Office of this Paper.

HOSPITAL or Infirmary; Locum; Qualified, experienced; Dispenser; now booking dates; write for interview. Pharmacist, 1 Abbeville Road, S.W.4.

JUNIOR or Improver; just completed three years' apprenticeship; Counter, Dispensing, Photography. W. G. Sheppard, Mark, near Highbridge.

LADY Dispenser (Hall) requires post; Doctor, Hospital or Institution; permanent or temporary; over two years' experience. Allanson, Mildmay House, 26 Holmesdale Gardens, Hastings, Sussex.

LADY Dispenser; locum or permanent; "Hall's" experienced. "Statim," 32 Cliff Road, Dovercourt, Essex.

LOCUM, qualified, varied experience, booking engagements July 14 onwards. Wrather, West Crescent, Darlington.

LOCUM; thoroughly conscientious worker; disengaged June 21; any distance; unqualified. H., 367 High Road, Ilford.

LOCUM; smart, reliable Assistant, 28, desires holiday relief work for July; terms reasonable; best references; Part I Minor. "Holliday," 8 Drayton Grove, West Ealing.

LOCUM or permanency; Minor; disengaged; good Retail and Dispensing experience; elderly. P. Smith, 127 Capel Road, Forest Gate, E.7.

LOCUM; thoroughly reliable; well recommended; age 48; experienced business man; abstainer; sold own business. St. Elmo, Beltinge Road, Herne Bay.

MALE; 25; unqualified; general experience; Dispensing, photo, etc.; Assistant to Proprietor preferred. Weller, 6 Blenheim Place, Sholing, Southampton.

MANAGER or Locum; qualified; last position 8 years; all-round experience; moderate terms. "R.", 14 Mayes Road, Wood Green.

MANAGER, Qualified; age 36, married, temperate; 19 years' experience, Dispensing, Window-dressing, Photography; with view to succession or not. 46/498, Office of this Paper.

MANAGER or Locum; disengaged; qualified; first-class experience; Counter, Dispensing and Prescribing. "Chemist," 19 Ruthven View, Leeds.

MANAGER, Pharmacist, married, desires permanency; London and Provincial experience; highly recommended; reliable. 243/14, Office of this Paper.

MANAGER or Locum; 47; 30 years' sound experience; disengaged; last position 4½ years; Dispensing, Counter, Photography. "Alpha," 243/12, Office of this Paper.

QUALIFIED; Manager or Locum; disengaged; 45; married; all-round experience, London, Continental and provincial. Leek, The Ferns, Uttoxeter, Staffs.

QUALIFIED, 25, abstainer, requires position as Manager; good Salesman; Photography, Window-dressing, Book-keeping; West-End experience. 241/40, Office of this Paper.

QUALIFIED Lady Dispenser requires post with Doctor or Hospital; would do locum. O. Berry, Hazelbank, Boxmoor, Herts.

REGISTERED, elderly Super Prescriber; small branch, Manchester district; good testimonials; moderate hours, light; moderate salary, etc. "D.", 142 Castle Street, Grimsby.

UNQUALIFIED, Scotsman, 23, tall, presently employed in London, West End, desires to return to Scotland, locum or permanency; splendid dispensing and counter experience; good character; accept 60s. 240/36, Office of this Paper.

UNQUALIFIED Assistant desires permanency; accustomed to quick counter trade, stock, dispensing, prescribing. Statim, 31 Groveaway, Chadwell Heath, Essex.

YOUNG Lady, unqualified, quick and accurate, good knowledge of Retail Pharmacy; well recommended. C. Flack, 214 Droop Street, Queen's Park, W.10.

YOUNG Lady, with five years' experience in general Counter Work, seeks situation as Assistant. Miss Hampson, 255 Richmond Road, Twickenham, Middlesex.

YOUNG Lady, college experience only in Dispensing, offers services; Card Index, Correspondence, Shorthand. 243/10, Office of this Paper.

30 S. WEEKLY.—Experienced Dispenser, male, single, middle-aged; medical curriculum; highest references. "Dispenser," 114 Bow Road, Bow, E.3.

WHOLESALE.

AT HOME OR ABROAD.—Ex-ranker officer desires position; accustomed to Secretarial duties, care of Medical, Surgical and other Stores, Dispensing and Accounts; especially qualified for post with Doctor, Hospital or Sanatorium; good organiser and thoroughly recommended. M.L. 3841/21, Office of this Paper.

ASSISTANT Chemist, 23; 3 years' technical training, London University; B.Sc. (Chemistry); willing to take any post in keeping with qualifications. M.L. 5673/23, Office of this Paper.

BIRMINGHAM and Midlands.—Representatives (Tablet and Lozenge House) with connection wishes to carry Sundries or non-competing advertised line; salary and part expenses. "Scot," 241/11, Office of this Paper.

CHEMICAL Engineering, B.Sc. (London), 28; some knowledge of French; good experience as Chemist-in-Charge of Alcohol and Solvent Receiving Plants, also as Research Chemist in Distillers' Company. M.L. 5029/23, Office of this Paper.

CHEMICAL FOODS OR PATENTS.—Ex-officer, 29, educated Public School and University, some French, good Medical and Dental training, connection and experience London and suburbs, desires post specially with Patent or Chemical Food Manufacturers. M.L. 3432/23, Office of this Paper.

EX-OFFICER, 30, single, educated Public School, 3 years University, Intermediate Physics and Chemistry, some knowledge French, 4 years' Laboratory experience, good knowledge Electrical Engineering, desires post, preferably in Chemical Works or Oil Refinery. M.L. 3428/4, Office of this Paper.

EX-OFFICER, 33; married; educated Public School, University B.A. (Nat. Science Research), Cantab.; experience Research work and demonstrating Chemical Laboratory, also as Manager, Chemical Extraction Plant, steam and electric machinery abroad; conversant Commercial Book-keeping; willing to take any post. M.L. 1826/22, Office of this Paper.

LATE Lt.-Qmr., R.A.M.C., 48, married, desires post as Dispenser, Storekeeper or Steward, Public Institution; 20 years' experience as Army Dispenser and Steward and 7 years' experience as Quartermaster, 1 year as Officer-in-Charge of Base Depot, Medical Stores, France. M.L. 7395/9, Office of this Paper.

OIL Chemist, 28, single, M.C., B.Sc. (Hons. Chemistry), A.R.C.S., A.I.C.; good technical French; experienced Laboratory Chemist, Oilfields; 12 months' experience Research work, Oil Technology Department; willing to take any post, in keeping with qualifications. M.L. 4416/2, Office of this Paper.

RESEARCH or Plant Chemist, 24, B.Sc.; good knowledge French and German; had experience in Chemical Company. M.L. 2672/8, Office of this Paper.

RESEARCH Works or Analytical, 24, B.Sc.; 2 years' war service; Chemistry; good knowledge French and German; experienced at Laboratory assistant (bacteriological). M.L. 14500, Office of this Paper.

WEST OF SCOTLAND.—Scotsman (24), London-Provincial experience, doctors, chemists, institutions, desires to represent good house; expenses, commission basis; own car. "E," 61 Drayton Gardens, W.13.

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10s. for 60 words; 1s. for every additional 10 words or less.

McADAM & TUCKNISS, Stock and Share Brokers, Westminster Bank Chambers, Blackheath, S.E.3. Established 1898. Telephone: 81 Lee Green. Shares for Sale, free of commission, (subject)—215 Allenbury "C" 6% Pfs., 20s. 6d.; 500 Beecham Estates & Pills Ord., 20s. 9d.; 500 x 8% Pfs., 10s., paid 10s. 10d.; 290 Heppells 7% Pfs., 19s. 9d.; 200 Idris "A" 6% Pfs., 16s. 6d.; 200 Iford 6% Pfs., 19s. 9d.; 100 Lewis & Burrows 6% Pfs., 17s.; 400 Parkes Drug Ord., 16s. 6d.; 100 x 6% Pfs., 17s. Wanted (subject)—500 Allenbury "A" Pfs., 19s. 6d.; 100 x 8% Prefd. Ord., 21s. 3d.; £1,000 Idris Deb., £63 per £100; 100 Wright Layman Pfs., 19s. 4d.

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£144.—SET of complete mahogany Shop Fittings, 7 ft. hand-some Dispensing Screen, 7 ft. Wall Case, 12 ft. Counter with cases in front, plate-glass Counter Case, two nests of Counter Drawers, 12 ft. Drug Fitting, Perfume Case and Desk, all-glass Counter; can easily be adapted. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.1.

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THORNTON-PICKARD RUBY REFLEX CAMERA, ¾ plate, Dallmeyer Adon Lens F.4.5, with 6 Bookform Plateholders, Waterproof Case complete; as new; cost £40; offer wanted. Hall & Son, Chemists, Littleborough.

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SECOND-HAND Shop Rounnds and Fittings. West, Roslyn House, Wadebridge, Cornwall.

PHARMACEUTICAL Books wanted; send priced list. Gower, Bookseller, 41 Voltaire Road, Clapham.

"CHEMIST AND DRUGGIST," July 26, 1919, and Index Vol. 91 (July-December, 1919). "S. B." Office of this Paper.

ALL kinds of Modern Cameras; big prices for your overstocks; send particulars. Wallace Heaton, Ltd., Change Alley, Sheffield.

OPTICAL TRIAL CASE, complete; must be in really good condition. Full particulars to Smith, Chemist, Shephed, Loughborough.

CHEMIST requires Plain Fixtures and Shop Rounds for country branch shop in West Riding; medium size. 237/13, Office of this Paper.

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As we go to press with this issue (Thursday, June 12) there are still open a few

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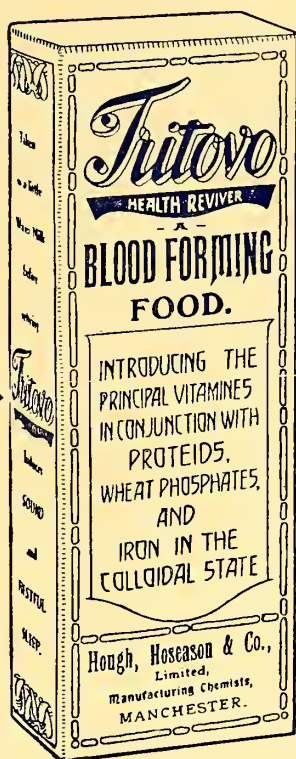
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